

# SAFFTY DATA SHFFT

DecoGel™ Concrete Acid Stain (Avocado) **Revision Date** 5/24/2021

**SECTION - 1** CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** DecoGel™ Concrete Acid Stain (Avocado) Item

**HAZARD CATEGORY CLASSIFICATION** 

P391

Water < 70%

CODE

1 - 15%

**Product Use** Concrete Stain & Dve

**Company Name** Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee Web www.DirectColors.com OK 74801

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

#### **SECTION - 2** HAZARDS INFORMATION

**Pictogram** 







Signal Word

Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

> May be corrosive to metals Category 1 Corrosive to Metals H290 Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) H314 Causes serious eve damage Category 1 Eye (Damage / Irritation) H318 Category 3 STOT Single Exposure H335 May cause respiratory irritation Category 2 Acute Toxicity (Aquatic) H401 Toxic to aquatic life Toxic to aquatic life with long lasting effects Category 2 Chronic Toxicity (Aquatic) H411

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

CODE P102 Keep out of reach of children Keep only in original container P234 Avoid breathing dust / fume / gas / mist / vapours / spray P261 Do not get in eyes, on skin, or on clothing P262 Wash thoroughly after handling P264 P270 Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area P271 P273 Avoid release to the environment Wear protective gloves / protective clothing / eye protection / face protection P280 P285 In case of inadequate ventilation wear respiratory protection P390 Absorb spillage to prevent material damage

P403+P405+P233 Store in a well-ventilated place, Store locked up, Keep container tightly closed

P406 Store in corrosive resistant container P501 Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 3 COMPOSITION	ON INFORMATION	(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)							
CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS#	<u>IMPURITIES</u>	PERCENT					
Iron(III) Chloride	Ferric Chloride Anhydrous	7705-08-0		1 - 10%					
Copper(II) Chloride Dihydrate	Cupric Chloride Dihydrate : Copper Chloride	10125-13-0		1 - 30%					

#### **SECTION - 4 FIRST AID MEASURES**

Hydrochloric Acid

Collect spillage

**Eye Contact** Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

7647-01-0

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical

attention

Inhaled Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical

> attention, Only give artificial respiration if breathing has stopped. Do not use mouth-to-mouth method if victim ingested or inhaled the substance, Induce artificial respiration with the aid of a pocket mask equipped with a one-

way valve or other proper respiratory medical device

Muriatic Acid

Ingested DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or

poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep

head below hips to prevent aspiration into the lungs

Page 2 of 5 DecoGel™ Acid Stain (Avocado) Revision Date 5/24/202:

Important Effects
Important Symptoms

Exposure can / may affect, blood, digestive system, eyes, kidneys, liver, nasal septum, respiratory, skin, spleen Symptoms may include, liver or kidney irregulatories, digestive tract burns, corrosive burns to skin or eyes,

respiratory irritation, blood disorders, nasal septum perforation, spleen disorders

SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, Iron oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water.

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION - 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

HMIS HAZARD RATINGS

Health Flammability Reactivity

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, alkalies, alkaline materials, amines, hexalithium disilicide, metal acetylides, permanganates,

potassium, sodium, strong oxidizing agents, metals, aluminum

# SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Iron(III) Chloride			(as Fe) 1 mg/m³				
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m³		(as Cu) 1 mg/m³				Dust, Mist
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT

# PERSONAL PROTECTION

Eyes Hands



Wear safety glasses or goggles or face shield when handling / using this material
Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilation Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

# SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.313
ND	pH (± 0.3)	< 2.0
ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Viscous Liquid	Melting Point	ND
Avocado Green	Boiling Point	ND
Acidic	Vapor Density (air=1)	ND
ND	Vapor Pressure (mmHg)	ND
< 79%	Evaporation Rate (nBuAc=1)	ND
< 64%	Partition Coefficient	ND
0%	Molecular Weight (g/mol)	~ 40.63
0%	Decomposition Temperature	ND
	ND Viscous Liquid Avocado Green Acidic ND < 79% < 64% 0%	ND pH (± 0.3)  ND Viscosity (mm²s / cSt)  Viscous Liquid Melting Point  Avocado Green Boiling Point  Acidic Vapor Density (air=1)  ND Vapor Pressure (mmHg)  < 79% Evaporation Rate (nBuAc=1)  < 64% Partition Coefficient  0% Molecular Weight (g/mol)

Page 3 of 5 DecoGel™ Acid Stain (Avocado) Revision Date 5/24/2021

#### SECTION - 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, alkalies, alkaline materials, amines, hexalithium disilicide, metal acetylides, permanganates,

potassium, sodium, strong oxidizing agents, metals, aluminum

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, Iron oxides

# SECTION – 11 TOXICOLOGICAL INFORMATION

## **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

**Skin** Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation

**Ingestion** May be harmful if swallowed

## CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

Skin Causes serious skin damage, dermatitis, ulcerations, corrosive burns

Inhalation Mist, vapor or fumes may cause, respiratory irritation, nasal septum perforation

Ingestion May be harmful if swallowed, Ingestion may affect, liver, kidneys, spleen, blood, Symptoms may include, digestive

tract burns, nausea, vomiting, abdominal pain, liver or kidney irregulatories, spleen disorders

Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist

Target Organs Blood, Kidneys, Liver, Skin, Spleen, Eyes, Respiratory System, Nasal Cavities

Medical Conditions Preexisting, eye, skin, liver, kidney, blood, respiratory, spleen, sinus, disorders may be aggravated by exposure to this

product

Notes to Physician Treat symptoms, No specific recommendations known

# **CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

CHEMICAL NAMENTPACGIHIARCGHS Category

None Listed NA NA NA NA

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

None Listed NA NA

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	GHS Category
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(III) Chloride	LD50	Oral	Rat	316 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Copper(II) Chloride Dihydrate	LD50	Oral	Rat	584 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1224 mg/kg		4 (>1000, ≤2000 mg/kg)

# SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Iron(III) Chloride	LC50	Bluegill (Lepomis macrochirus)	20.3 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Water flea (Daphnia magna)	12.9 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Copper(II) Chloride Dihydrate	LC50	Rainbow Trout (Oncorhynchus mykiss)	0.286 mg/l	96 Hours	1 (≤1 mg/l)
	EC50	Algae (Pseudokirchneriella s.)	0.05 mg/l	72 Hours	1 (≤1 mg/l)
	NOEC	Water Flea (Daphnia magna)	0.368 mg/l	21 Days	1 (≤1 mg/l)

Presistence And Degradability

When released into the soil, this material is not expected to biodegrade

Bioaccumulative Potential

Has low potential for bioaccumulation due to its high solubility in water

Mobility In Soil This material is a mobile liquid

Other Adverse Effects Toxic to aquatic life with long lasting effects

# SECTION – 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Dispose of any waste in accordance with an State and Pederal Guidelines and Regulations

**Container Disposal**Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

## SECTION – 14 TRANSPORT INFORMATION

## **DOT CLASSIFICATION**

Hydrochloric Acid

**Material Disposal** 

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals ) or "Limits"

Yes

Yes

Yes

Yes

Yes

Yes

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Copper(II) Chloride)

Hazard Class	Packing Group	Label Co	<u>des</u>	<u>Rep</u>	<u>ortable</u>	Quantit	y (lb)	Respor	nse <u>Ma</u>	rine Pollı	<u>utant</u>	Hazard La	abel :	Secondary
8 Additional Info	II 	Corrosive I	_iquid	(74) =	10 Cop	per(II) C	hloride	154		No				
Additional inic	·-											CORROSIVE 8		
SECTION - 15	REGULATOR	Y INFORMATI	ON											
<u>TSCA</u>														
CHEMICAL NA	ME	Se	c 8(b) Activ	e Invento	ry S	ec 8(d) He	ealth And S	Safety	Sec 4(a) C	hemical Te	st Rules	Sec 12(b	) Expor	t Notification
Iron(III) Chlori	de		Ye	s										
Hydrochloric A	Acid		Ye	s										
REPORTABLE	<u>QUANTITIES</u>		Extremely	Hazardous	5	Re	eportable 0	Quantity	Emission	Reporting	l			
CHEMICAL NA	ME	EPCRA TP	Q Sec 302	EPCRA	RQ Sec	304 CE	ERCLA RQ	Sec 103	TRIS	Sec 313	RC	RA Code	RMP	TQ Sec 112r
Hydrochloric A	Acid						5000	)						
Iron(III) Chlori	de						1000	)						
Cupric Chloric	le						10		Y	'es				
<u>SARA</u>		Se	ection 31	l				Section	on 311 / 3	12 Hazar	ds			
CHEMICAL NA	ME	Hazard	dous Che	mical		Acute	(	Chronic	Fla	ammable		Pressure		Reactive
Iron(III) Chlori	de		Yes			Yes								
Hydrochloric /	Acid		Yes			Yes								
RIGHT TO KNO	<u>w</u>						STATE							
CHEMICAL NA	ME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Iron(III) Chlori	de	Yes					Yes		Yes			Yes	Yes	
Hydrochloric /	Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
CALIFORNIA		This Product reproductive h									Califori	nia to caus	se can	cer, birth
CHEMICAL NA	ME	CAS#		Birth D	efects	F	Reproduc	tive Har	m	Carcino	ogen	D	evelor	mental
None Listed											<b>J</b>			
CLEAN AIR W	ATER ACTS			Clean	Air Act	s				(	Clean W	ater Acts		
CHEMICAL NA	ME	CAS#		HAP		Ozone	Class 1	Ozor	ne Class 2	2 I	HS	PP		TP
Hydrochloric /	Acid	7647-01-0		Yes										
INTERNATION	AL REGULATIONS	- The compo	nents of t	his produ	ıct are l	isted on	the chem	ical inver	ntories of t	he followi	ing cour	ntries:		
CHEMICAL NA	ME	Austr	alia	Ca	nada	Eur	ope (EIN	ECS)	Japa	n	K	orea		UK
Iron(III) Chlori	de	Ye	s	١	⁄es		Yes		Yes	i	١	′es		Yes

**Revision Date** 

# SECTION – 16 OTHER INFORMATION

<u>SDS</u>	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# **Direct Colors LLC**

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

-- End of Safety Data Sheet --



**SECTION - 1** 

# SAFFTY DATA SHFFT

DecoGel™ Concrete Acid Stain (Azure Blue) **Revision Date** 6/1/2021

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** DecoGel™ Concrete Acid Stain (Azure Blue) Item

**HAZARD CATEGORY CLASSIFICATION** 

CODE

**Product Use** Concrete Stain & Dve

**Company Name** Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee Web www.DirectColors.com OK 74801

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

#### **SECTION - 2** HAZARDS INFORMATION

**Pictogram** 







Signal Word

Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

May be corrosive to metals Category 1 Corrosive to Metals H290 Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) H314 Causes serious eye damage Category 1 Eye (Damage / Irritation) H318 Category 3 STOT Single Exposure H335 May cause respiratory irritation Category 2 Acute Toxicity (Aquatic) H401 Toxic to aquatic life Chronic Toxicity (Aquatic) Toxic to aquatic life with long lasting effects Category 2 H411

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

CODE P102 Keep out of reach of children P234 Keep only in original container P261 Avoid breathing dust / fume / gas / mist / vapours / spray Do not get in eyes, on skin, or on clothing P262 Wash thoroughly after handling P264 P270 Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area P271 P273 Avoid release to the environment Wear protective gloves / protective clothing / eye protection / face protection P280 P285 In case of inadequate ventilation wear respiratory protection P390 Absorb spillage to prevent material damage P391

P403+P405+P233 Store in a well-ventilated place, Store locked up, Keep container tightly closed

Store in corrosive resistant container P406 P501 Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION - 3 **COMPOSITION INFORMATION** (Exact percentage of the listed chemicals of composition has been withheld as a trade secret) **CHEMICAL NAME COMMON NAME AND SYNONYMS** CAS# **IMPURITIES PERCENT** Copper(II) Chloride Dihydrate Cupric Chloride Dihydrate; Copper Chloride 10125-13-0 1 - 30% Muriatic Acid 7647-01-0 Hydrochloric Acid Water < 70% 1 - 15%

#### **FIRST AID MEASURES SECTION - 4**

Collect spillage

Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove **Eye Contact** 

contact lenses if present and easy to do without injury to the eye and continue rinsing. Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical

attention

Inhaled Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical

attention, Only give artificial respiration if breathing has stopped. Do not use mouth-to-mouth method if victim ingested or inhaled the substance, Induce artificial respiration with the aid of a pocket mask equipped with a one-

way valve or other proper respiratory medical device

DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or Ingested

poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep

head below hips to prevent aspiration into the lungs

Important Effects
Important Symptoms

Exposure can / may affect, blood, digestive system, eyes, kidneys, liver, nasal septum, respiratory, skin, spleen Symptoms may include, liver or kidney irregulatories, digestive tract burns, corrosive burns to skin or eyes,

respiratory irritation, blood disorders, nasal septum perforation, spleen disorders

SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill. Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water.

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION – 7 HANDLING AND STORAGE

**Handling** Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

HMIS HAZARD RATINGS

Health
Flammability
Reactivity
Personal Protection

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, alkalies, amines, bases, hexalithium disilicide, metal acetylides, permanganates, potassium,

sodium, strong oxidizing agents, alkaline earth metals, aluminum

# SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m³		(as Cu) 1 mg/m³				Dust, Mist
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT

## PERSONAL PROTECTION

**Flash Point** 



Eyes Wear safety glasses or goggles or face shield when handling / using this material

Hands Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

> 93.3°C (200°F) - TAG Closed Cup

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilation Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

Specific Gravity / Density

~ 1.30

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

# SECTION – 9 PHYSICAL AND CHEMICAL PROPERTIES

i iddii i diiit	2 30.0 C (200 T) 17 C Closed Cup	opcomo Gravity / Bensity	1.00
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Blue	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 78%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 64%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 39.80
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

Page 3 of 5 DecoGel™ Acid Stain (Azure Blue) Revision Date 6/1/2021

#### SECTION - 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, alkalies, amines, bases, hexalithium disilicide, metal acetylides, permanganates, potassium,

sodium, strong oxidizing agents, alkaline earth metals, aluminum

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas

## SECTION – 11 TOXICOLOGICAL INFORMATION

## **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

**Skin** Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation

**Ingestion** May be harmful if swallowed

## CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

Skin Causes serious skin damage, dermatitis, ulcerations, corrosive burns

Inhalation Mist, vapor or fumes may cause, respiratory irritation, nasal septum perforation

Ingestion May be harmful if swallowed, Ingestion may affect, liver, kidneys, spleen, blood, Symptoms may include, digestive

tract burns, nausea, vomiting, abdominal pain, liver or kidney irregulatories, spleen disorders

Acute Tox Calculate Oral: 2,760 mg/kg Dermal: 8,215 mg/kg Inhaled: > 20 mg/l

Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist

Target Organs Blood, Kidneys, Liver, Skin, Spleen, Eyes, Respiratory System, Nasal Cavities

Medical Conditions Preexisting, eye, skin, liver, kidney, blood, respiratory, spleen, sinus, disorders may be aggravated by exposure to this

oroduct

Notes to Physician Treat symptoms, No specific recommendations known

# <u>CARCINOGENIC – This product contains concentrations above 0.1% of the following:</u>

<u>CHEMICAL NAME</u> <u>NTP</u> <u>ACGIH</u> <u>IARC</u> <u>GHS Category</u>

None Listed NA NA NA NA

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

None Listed NA NA

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Copper(II) Chloride Dihydrate	LD50	Oral	Rat	584 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1224 ma/ka		4 (>1000, ≤2000 ma/ka)

# SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	GHS Category
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Copper(II) Chloride Dihydrate	LC50	Rainbow Trout (Oncorhynchus mykiss)	0.286 mg/l	96 Hours	1 (≤1 mg/l)
	EC50	Algae (Pseudokirchneriella s.)	0.05 mg/l	72 Hours	1 (≤1 mg/l)
	NOEC	Water Flea (Daphnia magna)	0.368 mg/l	21 Days	1 (≤1 mg/l)

Presistence And Degradability When released into the soil, this material is not expected to biodegrade Bioaccumulative Potential Has low potential for bioaccumulation due to its high solubility in water

Mobility In Soil This material is a mobile liquid

Other Adverse Effects Toxic to aquatic life with long lasting effects

**Material Disposal** 

6/1/2021

## SECTION - 13 DISPOSAL CONSIDERATIONS

DISPOSAI Statement DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

**Container Disposal**Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

## SECTION – 14 TRANSPORT INFORMATION

## **DOT CLASSIFICATION**

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Copper(II) Chloride)

Hazard ClassPacking GroupLabel CodesReportable Quantity (lb)ResponseMarine PollutantHazard LabelSecondary8IICorrosive Liquid(67) = 10 Cupric Chloride154No

Additional Info:

Additional Info:											CORROSIV		
SECTION – 15 REGULA	ATORY INFORMATI	ON									•		
	ATORT INFORMATI	ON											
TSCA	•	0/1-> 4	I		2 - 0(-I) I	I III. A I O	. 6. 1	0 - 4(-) 0		. ( B. I	0 40//		. N . CC C
CHEMICAL NAME	56	. ,	tive Inventor	y :	sec 8(a) F	lealth And S	arety	Sec 4(a) C	hemical Te	St Kules	Sec 12(	o) Expo	t Notification
Hydrochloric Acid			es										
REPORTABLE QUANTITIES		Extremely	y Hazardous		F	Reportable Q	uantity	Emission	n Reporting	l			
CHEMICAL NAME	EPCRA TP	Q Sec 30	2 EPCRA	RQ Sec	304 C	ERCLA RQ	Sec 103	TRIS	Sec 313	RC	RA Code	RMI	PTQ Sec 112
Hydrochloric Acid						5000	)						
Cupric Chloride						10		Y	'es				
<u>SARA</u>	Se	ection 3	11				Secti	on 311 / 3	12 Hazar	ds			
CHEMICAL NAME	Hazard	dous Ch	emical		Acute	C	hronic	Fla	ammable	I	Pressure		Reactive
Hydrochloric Acid		Yes			Yes								
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
	IING: This Product s or reproductive I									Califorr	nia to cau	se can	cer, birth
CHEMICAL NAME	CAS#		Birth De	fects		Reproduc	tive Ha	rm	Carcino	ogen	[	Develo	pmental
None Listed													
CLEAN AIR WATER ACTS			Clean	Air Act	ts				(	Clean W	ater Acts		
CHEMICAL NAME	CAS#		HAP		Ozone	Class 1	Ozo	ne Class 2	2 1	HS	PP	1	TP
Hydrochloric Acid	7647-01-0		Yes										
INTERNATIONAL REGULATIO	NS - The compo	nents of	this produ	ct are	listed on	the chemi	cal inve	ntories of	the followi	ng cour	tries:		
CHEMICAL NAME	Austi	ralia	Cai	nada	Eu	rope (EIN	ECS)	Japa	n	Ko	orea		UK
Hydrochloric Acid	Ye	·c	V	es		Yes		Yes		\ \	'es		Yes

**Revision Date** 

## SECTION – 16 OTHER INFORMATION

<u>SDS</u>	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# **Direct Colors LLC**

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.

-- End of Safety Data Sheet --



# SAFETY DATA SHEET

DecoGel™ Concrete Acid Stain (Black) **Revision Date** 6/7/2021

Category 1B Skin & Eye (Corrosion)

Sensitization (Skin)

Eye (Damage / Irritation)

Acute Toxicity (Inhaled) DM

Sensitization (Respiratory)

STOT Single Exposure

Germ Cell Mutagenicity

Toxic To Reproduction

Acute Toxicity (Aquatic)

Chronic Toxicity (Aquatic)

STOT Repeat Exposure

STOT Repeat Exposure

P285 P390

P391

P406 P501

P403+P405+P233

Carcinogenicity

Category 1

Category 1

Category 4

Category 1

Category 3

Category 1

Category 1

Category 1

Category 2

Category 2

Category 1

Category 2

CODE

H290

H302

H314

H317

H318

H332

H334

H335

H340

H350

H360

H401

H411

H372

H373

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION **SECTION - 1** 

**Product Name** DecoGel™ Concrete Acid Stain (Black) Item

**Product Use** Concrete Stain & Dye

**Company Name** Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee Web www.DirectColors.com OK 74801

**EMERGENCY TELEPHONE NUMBER** INFOTRAC (800) 535-5053

#### SECTION - 2 HAZARDS INFORMATION

#### **Pictogram**









Signal Word

Danger

Hazards	PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS	HAZARD	CATEGORY CLASSIFICATION
	May be corrosive to metals	Category	1 Corrosive to Metals
	Harmful if swallowed	Category	4 Acute Toxicity (Oral)

Causes severe skin burns and eye damage May cause an allergic skin reaction Causes serious eye damage Harmful if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause respiratory irritation May cause genetic defects

May cause cancer

May damage fertility or the unborn child

Toxic to aquatic life

Collect spillage

Toxic to aquatic life with long lasting effects

Causes damage to organs through prolonged or repeated exposure

kidneys, liver, respiratory, skin ulceration

May cause damage to organs through prolonged or repeated exposure

nervous systems, by inhalation of dust / mist, or ingestion

#### HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL **Precautions**

HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL	CODE
Keep out of reach of children	P102
Obtain special instructions before use	P201
Do not handle until all safety precautions have been read and understood	P202
Keep only in original container	P234
Avoid breathing dust / fume / gas / mist / vapours / spray	P261
Do not get in eyes, on skin, or on clothing	P262
Wash thoroughly after handling	P264
Do not eat, drink or smoke when using this product	P270
Use only outdoors or in a well-ventilated area	P271
Contaminated work clothing should not be allowed out of the workplace	P272
Avoid release to the environment	P273
Wear protective gloves / protective clothing / eye protection / face protection	P280

In case of inadequate ventilation wear respiratory protection Absorb spillage to prevent material damage

Store in a well-ventilated place, Store locked up, Keep container tightly closed

Store in corrosive resistant container Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION - 3 **COMPOSITION INFORMATION** (Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS#	<u>IMPURITIES</u>	PERCENT
Hydrochloric Acid	Muriatic Acid	7647-01-0	Water < 70%	1 - 15%
Manganese(II) Chloride	Manganese Dichloride	7773-01-5		1 - 20%
Sodium Dichromate	Sodium Dichromate Dihydrate; Sodium Bichromate	7789-12-0		1 - 20%

SECTION - 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing. Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical

attention

Inhaled Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical

attention, If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel

Ingested DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse

mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into

the lungs

Important Effects Exposure can / may affect, eyes, kidneys, liver, nervous systems, respiratory, skin

Important Symptoms Symptoms Symptoms may include, allergic skin reactions, central nervous system depression, liver or kidney irregulatories,

corrosive burns to skin or eyes, allergic asthmatic breathing reactions, neurological disorders

# SECTION - 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, hydrogen chloride gas, magnesium oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

# SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment, NOTE: Organic spill kits that contain Floor-Dri, kitty litter, or sand should NOT be used because

Hydrogen Fluoride reacts with silica to produce silicon tetrafluoride, a toxic gas

Clean Up Procedures Neutralize spill with soda ash, lime, sodium bicarbonate, or a spill absorbent specified for Hydrogen Fluoride. With

clean shovel, carefully place material into clean appropriate waste disposal unit. Flush spill area with water, NOTE:

Neutralized Hydrofluoric Acid can still be Toxic, observe all safety precautions

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

# SECTION - 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates,

potassium, sodium, strong acids, sodium oxides, alkaline earth metals, zinc

# SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS Si									
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure		
Manganese(II) Chloride	0.1 mg/m³		5 mg/m³		1 mg/m³	3 mg/m³	CNS		
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT		
Sodium Dichromate	(as Cr) 0.05 mg/m <sup>3</sup>	(as Cr VI) 0.001 mg/m3	(as Cr) 0.005 mg/m3	(as Cr VI) 0.001 mg/m <sup>3</sup>	(as Cr) 0.001 mg/m <sup>3</sup>				

## **PERSONAL PROTECTION**



HMIS HAZARD RATINGS
Health 3
Flammability 0
Reactivity 0
Personal Protection H

Eyes Wear safety glasses or goggles or face shield when handling / using this material

Hands Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

Page 3 of 5 DecoGel™ Acid Stain (Black) Revision Date 6/7/2021

#### SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.389
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Liquid	Melting Point	ND
Appearance	Black	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 64%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 62%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 44.50
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

## SECTION - 10 STABILITY AND REACTIVITY

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates,

potassium, sodium, strong acids, sodium oxides, alkaline earth metals, zinc

Hazardous Decomposition Burning or thermal decomposition can produce, hydrogen chloride gas, magnesium oxides

## SECTION – 11 TOXICOLOGICAL INFORMATION

## **ROUTES OF EXPOSURE**

Ingestion

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

Skin May cause allergic skin reaction, Can cause serious skin damage

Inhalation Harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, breathing difficulties

Ingestion Harmful if swallowed, May affect target organs

CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

Skin May cause allergic skin reaction, Causes serious skin damage, ulcerations, corrosive burns

Inhalation Harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, neurological effects, allergic reactions,

asthmatic symptoms, May affect target organs, respiratory system, nervous system, liver, kidneys

Harmful if swallowed, Ingestion may affect, liver, kidneys, respiratory system, nervous system, Symptoms may include, nausea, vomiting, abdominal pain, liver or kidney irregulatories, neurological disorders

Acute Tox Calculate Oral: 570 mg/kg Dermal: 17,857 mg/kg Inhaled: 2.2 mg/kg

Acute Tox Category 4 (Oral >300, ≤2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Category 4 (Inhaled >1.0, ≤5 mg/l) Dust or Mist

Target Organs Kidneys, Liver, Mucous Membranes, Skin, Eyes, Respiratory System, Nervous Systems

Medical Conditions Preexisting, eye, skin, liver, kidney, respiratory, mucous membranes, disorders may be aggravated by exposure to this

product

Notes to Physician Treat symptoms, No specific recommendations known

# CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAMENTPACGIHIARCGHS CategorySodium DichromateK (Known to be)A1 (Confirmed for human)1 (Proven for human)Category 1B

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

Sodium Dichromate Yes Yes

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	<b>Exposure Time</b>	<b>GHS Category</b>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Manganese(II) Chloride	LD50	Oral	Rat (F)	236 mg/kg		3 (>50, ≤300 mg/kg)
Sodium Dichromate	LD50	Oral	Rat	50 mg/kg		2 (>5, ≤50 mg/kg)
	LC50	Inhaled	Rat	0.124 mg/l	4 Hour (Dust)	1 (≤0.05 mg/l)
	LD50	Dermal	Rabbit	1000 mg/kg		4 (>1000, ≤2000 mg/kg)

#### **SECTION - 12 ECOLOGICAL INFORMATION CHEMICAL NAME** Type **Subject Subject Latin** Result Value Exposure Time **GHS Category** LC50 Hydrochloric Acid Mosquito Fish (Gambusia affinis) 282 mg/l 96 Hours 4 (>100 mg/l) EC50 Manganese(II) Chloride Water Flea (Daphnia magna) 9.8 mg/l 48 Hours 2 (>1, ≤10 mg/l) EC50 Green Algea (Pseudokirchneriella s.) 3.83 mg/l 72 Hours 2 (>1, ≤10 mg/l) Sodium Dichromate LC50 Fathead Minnow (Pimephales promelas) 33.2 mg/l 96 Hours 3 (>10, ≤100 mg/l) EC50 Green Algae (Selenastrum capricorn) 0.217 mg/l 96 Hours 1 (≤1 mg/l) FC50 Water Flea (Daphnia magna) 0.112 mg/l 48 Hours 1 (≤1 mg/l) Presistence And Degradability When released into the soil, this material is not expected to biodegrade Has low potential for bioaccumulation due to its high solubility in water **Bioaccumulative Potential Mobility In Soil** This material is a mobile liquid Other Adverse Effects Toxic to aquatic life with long lasting effects

# SECTION - 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Container Disposal Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

## SECTION – 14 TRANSPORT INFORMATION

#### **DOT CLASSIFICATION**

**Material Disposal** 

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Sodium Dichromate)

Hazard ClassPacking GroupLabel CodesReportable Quantity (Ib)ResponseMarine PollutantHazard LabelSecondary8IICorrosive Liquid> (50,000)154No

**Additional Info:** 

SECTION - 15 REGULATORY	INFORMATION					
TSCA CHEMICAL NAME	Sec 8(b) Active Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test I	Rules Sec 12	(b) Export Notification	
Manganese(II) Chloride	Yes					
Hydrochloric Acid	Yes					
Sodium Dichromate	Yes					
REPORTABLE QUANTITIES	Extremely Hazardous	Reportable Quantity	Emission Reporting			
CHEMICAL NAME	EPCRA TPQ Sec 302 EPCRA RQ S	Sec 304 CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r	
Hydrochloric Acid		5000				
Sodium Dichromate			Yes			

<u>SARA</u>	Se	ection 31	11	Section 311 / 312 Hazards									
CHEMICAL NAME	Hazar	dous Ch	emical		Acute		Chronic	F	lammable	•	Pressure		Reactive
Manganese(II) Chloride		Yes			Yes								
Hydrochloric Acid		Yes			Yes								
Sodium Dichromate		Yes			Yes		Yes						Yes
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Manganasa(II) Chlorida								Vaa					

RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Manganese(II) Chloride								Yes					
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
Sodium Dichromate								Yes					

**CALIFORNIA** 

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

CHEMICAL NAME	CAS#	Birth Defects	Reproductive Harm	Carcinogen	Developmental
Chromium Compounds				Yes	

Page 5 of 5	DecoGel™ Acid Stain (Black)	Revision Date	6/7/2021
CLEAN AID WATER ACTS	Cloop Air Acto	Clean Water Acts	

CLEAN AIR WATER ACTS		Clean Air	Clean Air Acts			Clean Water Acts		
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP	
Hydrochloric Acid	7647-01-0	Yes						

INTERNATIONAL REGULATIONS - The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes

# SECTION – 16 OTHER INFORMATION

CDC	I FOEND DECODIDATION		
<u>SDS</u>	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# Direct Colors LLC

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.



**SECTION - 1** 

# SAFFTY DATA SHFFT

DecoGel™ Concrete Acid Stain (Coffee Brown) **Revision Date** 6/1/2021

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** DecoGel™ Concrete Acid Stain (Coffee Brown) Item

**Product Use** Concrete Stain & Dve

**Company Name** Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee Web www.DirectColors.com OK 74801

**EMERGENCY TELEPHONE NUMBER** INFOTRAC (800) 535-5053

#### **SECTION - 2** HAZARDS INFORMATION

**Pictogram** 









Signal Word

Danger

Hazards	PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

**HAZARD CATEGORY CLASSIFICATION** CODE May be corrosive to metals Category 1 Corrosive to Metals H290 Harmful if swallowed Category 4 Acute Toxicity (Oral) H302 Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) H314 May cause an allergic skin reaction Category 1 Sensitization (Skin) H317 Category 1 Eye (Damage / Irritation) H318 Causes serious eve damage May cause allergy or asthma symptoms or breathing difficulties if inhaled Sensitization (Respiratory) Category 1 H334 STOT Single Exposure May cause respiratory irritation Category 3 H335 May cause genetic defects Category 1B Germ Cell Mutagenicity H340 Category 1B Carcinogenicity H350 May cause cancer May damage fertility or the unborn child Category 1B Toxic To Reproduction H360 Category 2 Acute Toxicity (Aquatic) H401 Toxic to aquatic life Toxic to aquatic life with long lasting effects Category 2 Chronic Toxicity (Aquatic) H411 Causes damage to organs through prolonged or repeated exposure Category 1 STOT Repeat Exposure H372 kidneys, liver H373 Category 2 STOT Repeat Exposure

May cause damage to organs through prolonged or repeated exposure nervous systems, by inhalation of dust / mist, or ingestion

FIECAULIONS HANDLING/FROTECTION/FIRE/STORAGE/DISFOSAL	Precautions	HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL
---	-------------	---

CODE P102 Keep out of reach of children P201 Obtain special instructions before use P202 Do not handle until all safety precautions have been read and understood P234 Keep only in original container Avoid breathing dust / fume / gas / mist / vapours / spray P261 P262 Do not get in eyes, on skin, or on clothing Wash thoroughly after handling P264 P270 Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area P271 P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid release to the environment P280 Wear protective gloves / protective clothing / eye protection / face protection In case of inadequate ventilation wear respiratory protection P285 Absorb spillage to prevent material damage P390 P391 Collect spillage

P403+P405+P233 Store in a well-ventilated place, Store locked up, Keep container tightly closed P406 Store in corrosive resistant container

Dispose of material in accordance with all State and Federal Guidelines and Regulations P501

SECTION – 3 COMPOSITION INFORMATION		(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)				
CHEMICAL NAME	<b>COMMON NAME AND SYNONYMS</b>	CAS#	<u>IMPURITIES</u>	<u>PERCENT</u>		
Hydrochloric Acid	Muriatic Acid	7647-01-0	Water < 70%	1 - 15%		
Iron(III) Chloride	Ferric Chloride Anhydrous	7705-08-0		1 - 20%		
Manganese(II) Chlorid	e Manganese Dichloride	7773-01-5		1 - 20%		
Sodium Dichromate	Sodium Dichromate Dihydrate : Sodium Bichromate	7789-12-0		1 - 20%		

HMIS HAZARD RATINGS

Flammability Reactivity Personal Protection

SECTION - 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical

attention

Inhaled Not applicable under normal use. If irritation is experienced, move person to fresh air

Ingested DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse

mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention. If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into

the lungs

Important Effects Exposure can / may affect, eyes, kidneys, liver, nervous systems, respiratory, skin

Important Symptoms Symptoms may include, allergic skin reactions, liver or kidney irregulatories, corrosive burns to skin or eyes,

allergic asthmatic breathing reactions, neurological disorders

## SECTION - 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, hydrogen chloride gas, Iron oxides, magnesium oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

## SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water,

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

# SECTION - 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates,

potassium, sodium, strong acids, strong oxidizers, sodium oxides, alkaline earth metals, zinc

## SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Manganese(II) Chloride	0.1 mg/m³		5 mg/m³		1 mg/m³	3 mg/m³	CNS
Iron(III) Chloride			(as Fe) 1 mg/m³				
Sodium Dichromate	(as Cr) 0.05 mg/m <sup>3</sup>	(as Cr VI) 0.001 mg/m <sup>3</sup>	(as Cr) 0.005 mg/m <sup>3</sup>	(as Cr VI) 0.001 mg/m <sup>3</sup>	(as Cr) 0.001 mg/m <sup>3</sup>		

#### **PERSONAL PROTECTION**

Hands



Wear safety glasses or goggles or face shield when handling / using this material Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

Page 3 of 5 DecoGel™ Acid Stain (Coffee Brown) Revision Date 6/1/2021

#### SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

Flas	sh Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.342
Flan	nmable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto	o-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Phy	sical State	Viscous Liquid	Melting Point	ND
App	earance	Brown	<b>Boiling Point</b>	ND
Odo	or	Acidic	Vapor Density (air=1)	ND
Odo	r Threshold	ND	Vapor Pressure (mmHg)	ND
Solu	ubility	< 73%	Evaporation Rate (nBuAc=1)	ND
Vola	atiles	< 65%	Partition Coefficient	ND
VOC		0%	Molecular Weight (g/mol)	~ 37.63
LVP	-voc	0%	Decomposition Temperature	ND

## SECTION - 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides, permanganates,

potassium, sodium, strong acids, strong oxidizers, sodium oxides, alkaline earth metals, zinc

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, hydrogen chloride gas, Iron oxides, magnesium oxides

# SECTION – 11 TOXICOLOGICAL INFORMATION

# **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

Skin May cause allergic skin reaction, Can cause serious skin damage

Inhalation May be harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, breathing difficulties

Ingestion Harmful if swallowed, May affect target organs

#### CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

**Skin** May cause allergic skin reaction, Causes serious skin damage, ulcerations, corrosive burns

Inhalation May be harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, neurological effects, allergic

reactions, asthmatic symptoms

Ingestion Harmful if swallowed, Ingestion may affect, liver, kidneys, respiratory system, nervous system, Symptoms may include,

nausea, vomiting, abdominal pain, liver or kidney irregulatories, neurological disorders

Acute Tox Calculate Oral: 1,041 mg/kg Dermal: 21,277 mg/kg Inhaled: 6.9 mg/l

Acute Tox Category 4 (Oral >300, ≤2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist

Target Organs Kidneys, Liver, Mucous Membranes, Skin, Eyes, Respiratory System, Nervous Systems

Medical Conditions Preexisting, eye, skin, liver, kidney, respiratory, mucous membranes, nervous systems, disorders may be aggravated by

exposure to this product

Notes to Physician Treat symptoms, No specific recommendations known

# CARCINOGENIC – This product contains concentrations above 0.1% of the following:

CHEMICAL NAME	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	GHS Category
Sodium Dichromate	K (Known to be)	A1 (Confirmed for human)	1 (Proven for human)	Category 1B

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

Sodium Dichromate Yes Ye

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	GHS Category
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(III) Chloride	LD50	Oral	Rat	316 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Manganese(II) Chloride	LD50	Oral	Rat (F)	236 mg/kg		3 (>50, ≤300 mg/kg)
Sodium Dichromate	LD50	Oral	Rat	50 mg/kg		2 (>5, ≤50 mg/kg)
	LC50	Inhaled	Rat	0.124 mg/l	4 Hour (Dust)	1 (≤0.05 mg/l)
	LD50	Dermal	Rabbit	1000 mg/kg		4 (>1000, ≤2000 mg/kg)

		•	,		
SECTION – 12 ECOLOGICA	L INFORMATION	ON			
CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Iron(III) Chloride	LC50	Bluegill (Lepomis macrochirus)	20.3 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Water flea (Daphnia magna)	12.9 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Manganese(II) Chloride	EC50	Water Flea (Daphnia magna)	9.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)
	EC50	Green Algea (Pseudokirchneriella s.)	3.83 mg/l	72 Hours	2 (>1, ≤10 mg/l)
Sodium Dichromate	LC50	Fathead Minnow (Pimephales promelas)	33.2 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Green Algae (Selenastrum capricorn)	0.217 mg/l	96 Hours	1 (≤1 mg/l)
	EC50	Water Flea (Daphnia magna)	0.112 mg/l	48 Hours	1 (≤1 mg/l)
Presistence And Degradability	When rele	eased into the soil, this material is not expe	ected to biodegra	ade	
Bioaccumulative Potential	Has low po	otential for bioaccumulation due to its high	solubility in wat	er	
Mobility In Soil	This mater	rial is a mobile liquid	·		

#### Toxic to aquatic life with long lasting effects SECTION - 13 **DISPOSAL CONSIDERATIONS**

**Disposal Statement** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

**Container Disposal** Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal **Material Disposal** This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations

(40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

#### TRANSPORT INFORMATION SECTION - 14

# **DOT CLASSIFICATION**

Other Adverse Effects

**UN Number** Proper Shipping Name n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Sodium Dichromate)

Hazard Class Packing Group Reportable Quantity (lb) Marine Pollutant Hazard Label Secondary **Label Codes** Response R Ш Corrosive Liquid > (40,000) 154 No

**Additional Info:** 

SECTION – 15 REGULATO	RY INFORMATION				
<u>TSCA</u>					
CHEMICAL NAME	Sec 8(b) Active Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	Sec 12(	b) Export Notification
Hydrochloric Acid	Yes				
Manganese(II) Chloride	Yes				
Iron(III) Chloride	Yes				
Sodium Dichromate	Yes				
REPORTABLE QUANTITIES	Extremely Hazardous	Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302 EPCRA RQ S	Sec 304 CERCLA RQ Sec 103	TRI Sec 313 RO	CRA Code	RMP TQ Sec 112
Hydrochloric Acid		5000			

CHEMICAL NAME	EPCRA IPQ Sec 302	EPCKA KQ Sec 304	CERCLA RQ Sec 103	1KI Sec 313	KCKA Code	RIVIP IQ Sec 1121
Hydrochloric Acid			5000			
Iron(III) Chloride			1000			
Sodium Dichromate				Yes		
SARA	Section 311		Section	n 311 / 312 Hazard	ls	

<u>SARA</u>	Section 311		Section	311 / 312 Hazards		
CHEMICAL NAME	<b>Hazardous Chemical</b>	Acute	Chronic	Flammable	Pressure	Reactive
Hydrochloric Acid	Yes	Yes				
Manganese(II) Chloride	Yes	Yes				
Iron(III) Chloride	Yes	Yes				
Sodium Dichromate	Yes	Yes	Yes			Yes
DIGHT TO KNOW			TATE			

Sociali Dicilionale		163			163		163						163
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
Manganese(II) Chloride								Yes					
Iron(III) Chloride	Yes					Yes		Yes			Yes	Yes	
Sodium Dichromate								Yes					

**CHEMICAL NAME** 

**Chromium Compounds** 

**Revision Date** 

Yes

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

CAS # Birth Defects Reproductive Harm Carcinogen Developmental

CLEAN AIR WATER ACTS	Clean Air	Acts	Clean Water Acts				
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Hydrochloric Acid	7647-01-0	Yes					

INTERNATIONAL REGULATIONS - The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes	Yes

# SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
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CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# **Direct Colors LLC**

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# SAFETY DATA SHEET

DecoGel™ Concrete Acid Stain (Cola) **Revision Date** 6/1/2021

CODE

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** DecoGel™ Concrete Acid Stain (Cola) Item

Concrete Stain & Dye

**Product Use** 

**SECTION - 1** 

**Company Name** Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee Web www.DirectColors.com OK 74801

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

#### SECTION - 2 **HAZARDS INFORMATION**

**Pictogram** 









Signal Word Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

**HAZARD CATEGORY CLASSIFICATION** CODE H290 Corrosive to Metals May be corrosive to metals Category 1 Harmful if swallowed Category 4 Acute Toxicity (Oral) H302 Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) H314 Eye (Damage / Irritation) H318 Causes serious eye damage Category 1 Category 3 STOT Single Exposure H335 May cause respiratory irritation H401 Category 2 Acute Toxicity (Aquatic) Toxic to aquatic life Chronic Toxicity (Aquatic) Toxic to aquatic life with long lasting effects Category 2 H411 May cause damage to organs through prolonged or repeated exposure Category 2 STOT Repeat Exposure H373

liver, nervous systems, by inhalation of dust / mist, or ingestion

HANDEING / I KOTEGHON / I IKE / GTOKAGE / DIGI GGAE	OODL
Keep out of reach of children	P102
Keep only in original container	P234
Avoid breathing dust / fume / gas / mist / vapours / spray	P261
Do not get in eyes, on skin, or on clothing	P262
Wash thoroughly after handling	P264
Do not eat, drink or smoke when using this product	P270
Use only outdoors or in a well-ventilated area	P271
Avoid release to the environment	P273
Wear protective gloves / protective clothing / eye protection / face protection	P280
In case of inadequate ventilation wear respiratory protection	P285
Absorb spillage to prevent material damage	P390
Collect spillage	P391

P403+P405+P233 Store in a well-ventilated place, Store locked up, Keep container tightly closed

Store in corrosive resistant container P406 P501 Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION - 3 **COMPOSITION INFORMATION** (Exact percentage of the listed chemicals of composition has been withheld as a trade secret) **COMMON NAME AND SYNONYMS IMPURITIES PERCENT CHEMICAL NAME** CAS# Hydrochloric Acid 7647-01-0 Water < 70% Muriatic Acid 1 - 15% Iron(II) Chloride Ferrous Chloride Tetrahydrate 13478-10-9 1 - 10% Iron(III) Chloride Ferric Chloride Anhydrous 7705-08-0 1 - 20% Copper(II) Chloride Dihydrate Cupric Chloride Dihydrate; Copper Chloride 1 - 10% 10125-13-0 Manganese(II) Chloride Manganese Dichloride 7773-01-5 1 - 10%

#### **SECTION - 4 FIRST AID MEASURES**

Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove **Eye Contact** 

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

**Skin Contact** Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical

attention

Inhaled Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical

attention, Only give artificial respiration if breathing has stopped. Do not use mouth-to-mouth method if victim ingested or inhaled the substance, Induce artificial respiration with the aid of a pocket mask equipped with a one-

way valve or other proper respiratory medical device

Ingested DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse

mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into

the lungs

Important Effects Exposure can / may affect, blood, digestive system, eyes, kidneys, liver, nasal septum, nervous systems,

respiratory, skin, spleen

Important Symptoms Symptoms may include, liver or kidney irregulatories, digestive tract burns, corrosive burns to skin or eyes,

respiratory irritation, blood disorders, neurological disorders, nasal septum perforation, spleen disorders

## SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, Iron oxides,

magnesium oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

## SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water,

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

#### SECTION - 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, aldehydes, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides.

permanganates, potassium, sodium, strong acids, strong oxidizing agents, alkaline earth metals, aluminum, zinc

# SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Iron(II) Chloride	(as Fe) 1mg/m³						
Iron(III) Chloride			(as Fe) 1 mg/m³				
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m³		(as Cu) 1 mg/m³				Dust, Mist
Manganese(II) Chloride	0.1 mg/m <sup>3</sup>		5 mg/m³		1 mg/m³	3 mg/m³	CNS

#### **PERSONAL PROTECTION**



HMIS HAZARD RATINGS
Health
Flammability
Reactivity
Personal Protection
H

Eyes Wear safety glasses or goggles or face shield when handling / using this material Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

DecoGel™ Acid Stain (Cola) **Revision Date** 6/1/2021 Page 3 of 5

#### **SECTION - 9** PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.29
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm²s / cSt)	ND
Physical State	Liquid	Melting Point	ND
Appearance	Brown	<b>Boiling Point</b>	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 84%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 68%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 41.02
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

#### **SECTION - 10** STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

**Chemical Stability** Stable under normal ambient and anticipated conditions of use

**Hazardous Polymerization** Will not occur

**Conditions To Avoid** Incompatible materials

**Incompatible Materials** Incompatible with, aldehydes, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong acids, strong oxidizing agents, alkaline earth metals, aluminum, zinc

**Hazardous Decomposition** Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, Iron oxides,

magnesium oxides

#### **TOXICOLOGICAL INFORMATION** SECTION - 11

# **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

# **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

**Eves** Causes serious eye damage

Skin Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation Ingestion Harmful if swallowed, May affect target organs

# CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Causes serious eye damage, corneal injury, partial or complete blindness Eyes Skin Causes serious skin damage, dermatitis, ulcerations, corrosive burns

Inhalation Mist, vapor or fumes may cause, respiratory irritation, nasal septum perforation

Ingestion Harmful if swallowed, Ingestion may affect, liver, kidneys, spleen, blood, nervous system, Symptoms may include.

digestive tract burns, nausea, vomiting, liver or kidney irregulatories, neurological disorders, spleen disorders

Dermal: **Acute Tox Calculate** Oral: 1,920 mg/kg 22,319 mg/kg

Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist **Acute Tox Category** 

**Target Organs** Blood, Kidneys, Liver, Skin, Spleen, Eyes, Respiratory System, Nervous Systems, Nasal Cavities

**Medical Conditions** Preexisting, eye, skin, liver, kidney, blood, respiratory, spleen, nervous systems, sinus, disorders may be aggravated by

exposure to this product

Notes to Physician Treat symptoms, No specific recommendations known

# **CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

**CHEMICAL NAME** NTP **ACGIH IARC GHS Category** NA NA NA NA None Listed

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

**CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction** 

NA None Listed NA

# **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(II) Chloride	LD50	Oral	Rat	500 mg/kg		4 (>300, ≤2000 mg/kg)
Iron(III) Chloride	LD50	Oral	Rat	316 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Manganese(II) Chloride	LD50	Oral	Rat (F)	236 mg/kg		3 (>50, ≤300 mg/kg)
Copper(II) Chloride Dihydrate	LD50	Oral	Rat	584 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1224 mg/kg		4 (>1000, ≤2000 mg/kg)

- 3			, , ,			
SECTION – 12 E	COLOGICAL	. INFORMATI	ON			
CHEMICAL NAME		<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid		LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Iron(II) Chloride		LC50	Japanese Ricefish (Oryzias latipes)	46 mg/l	96 Hours	3 (>10, ≤100 mg/l)
		EC50	Green Algae (Pseudokirchneriella s.)	6.9 mg/l	72 Hours	2 (>1, ≤10 mg/l)
		EC50	Water Flea (Daphnia magna)	19 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Iron(III) Chloride		LC50	Bluegill (Lepomis macrochirus)	20.3 mg/l	96 Hours	3 (>10, ≤100 mg/l)
		EC50	Water flea (Daphnia magna)	12.9 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Manganese(II) Chloride	e	EC50	Water Flea (Daphnia magna)	9.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)
		EC50	Green Algea (Pseudokirchneriella s.)	3.83 mg/l	72 Hours	2 (>1, ≤10 mg/l)
Copper(II) Chloride Dih	nydrate	LC50	Rainbow Trout (Oncorhynchus mykiss)	0.286 mg/l	96 Hours	1 (≤1 mg/l)
		EC50	Algae (Pseudokirchneriella s.)	0.05 mg/l	72 Hours	1 (≤1 mg/l)
		NOEC	Water Flea (Daphnia magna)	0.368 mg/l	21 Days	1 (≤1 mg/l)
Presistence And Deg	radability	When rele	eased into the soil, this material is not exped	cted to biodegra	ade	
Bioaccumulative Pote	ential	Has low p	otential for bioaccumulation due to its high	solubility in wat	er	
Mobility In Soil		This mate	rial is a mobile liquid			
Other Adverse Effects	s	Toxic to a	quatic life with long lasting effects			

# SECTION - 13 DISPOSAL CONSIDERATIONS

Disposal Statement DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Container Disposal Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

Material Disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulat

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

# SECTION – 14 TRANSPORT INFORMATION

## **DOT CLASSIFICATION**

Manganese(II) Chloride

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Copper(II) Chloride)

Hazard ClassPacking GroupLabel CodesReportable Quantity (lb)ResponseMarine PollutantHazard LabelSecondary8IICorrosive Liquid(667) = 10 Cupric Chloride154No

Additional Info: Shipping information for: (Pints, Quarts and Gallons)

SECTION – 15 REGULA	TORY INFORMAT	ION											
<u>TSCA</u>													
CHEMICAL NAME	Se	ec 8(b) Activ	ve Invento	ry S	Sec 8(d)	Health And	Safety	Sec 4(a) C	Chemical Tes	st Rules	Sec 12(	b) Export	Notification
Hydrochloric Acid		Ye	:S										
Iron(II) Chloride		Ye	s										
Iron(III) Chloride		Ye	s										
Manganese(II) Chloride		Ye	es.										
REPORTABLE QUANTITIES		Extremely	Hazardou	s		Reportable (	Quantity	Emissio	n Reporting				
CHEMICAL NAME	EPCRA TI	PQ Sec 302	EPCRA	RQ Sec	304	CERCLA RQ	Sec 103	TRI	Sec 313	RC	RA Code	RMP	TQ Sec 112
Hydrochloric Acid						500	0						
Iron(III) Chloride						100	0						
Cupric Chloride						10		`	<b>Yes</b>				
<u>SARA</u>	S	ection 31	1				Secti	on 311 / 3	312 Hazaro	ds			
CHEMICAL NAME	Hazar	dous Che	mical		Acute	(	Chronic	FI	ammable		Pressure		Reactive
Hydrochloric Acid		Yes			Yes								
Iron(II) Chloride		Yes			Yes		Yes						
Iron(III) Chloride		Yes			Yes								
Manganese(II) Chloride		Yes			Yes								
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	s Yes	Yes	Yes		Yes	Yes	Yes	
Iron(III) Chloride	Yes					Yes		Yes			Yes	Yes	

Yes

CHEMICAL NAME	CAS#	Birth Defects	Reproductive	e Harm	Carcinogen	Devel	opmental
None Listed							
CLEAN AIR WATER ACTS		Clean Air Act	S		Clean Water	r Acts	
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Hydrochloric Acid	7647-01-0	Yes					
INTERNATIONAL REGULATION	NS - The components of	of this product are li	isted on the chemical	inventories of th	e following countries	3:	
CHEMICAL NAME	Australia	Canada	Europe (EINECS	S) Japan	Korea	ı	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes		Yes
Iron(II) Chloride	Yes	Yes	Yes	Yes	Yes		Yes
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes		Yes

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# **Direct Colors LLC**

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.



SECTION - 1

# SAFETY DATA SHEET

DecoGel™ Concrete Acid Stain (Desert Amber) **Revision Date** 6/1/2021

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Item DecoGel™ Concrete Acid Stain (Desert Amber)

Modified Duplicate

**Product Use** Concrete Stain & Dve

**Company Name** Office Direct Colors LLC (877) 255-2656 ext.1

430 E 10th St

Shawnee OK 74801 Web www.DirectColors.com

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

#### SECTION - 2 **HAZARDS INFORMATION**

**Pictogram** 



kidneys, liver







Signal V	Vord	Danger
----------	------	--------

Hazards	PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS
nazarus	PRISICAL/REALIR/ENVIRONMENTAL RAZARD STATEMENTS

**HAZARD CATEGORY CLASSIFICATION** CODE Corrosive to Metals H290 May be corrosive to metals Category 1 H302 Harmful if swallowed Category 4 Acute Toxicity (Oral) Category 1B Skin & Eye (Corrosion) H314 Causes severe skin burns and eye damage Category 1 Sensitization (Skin) H317 May cause an allergic skin reaction Causes serious eye damage Category 1 Eye (Damage / Irritation) H318 Category 4 Acute Toxicity (Inhaled) DM H332 Harmful if inhaled May cause allergy or asthma symptoms or breathing difficulties if inhaled Category 1 Sensitization (Respiratory) H334 STOT Single Exposure H335 May cause respiratory irritation Category 3 Germ Cell Mutagenicity May cause genetic defects Category 1 H340 Category 1 Carcinogenicity H350 May cause cancer May damage fertility or the unborn child Category 1 Toxic To Reproduction H360 Toxic to aquatic life Category 2 Acute Toxicity (Aquatic) H401 Chronic Toxicity (Aquatic) Toxic to aquatic life with long lasting effects Category 2 H411 Causes damage to organs through prolonged or repeated exposure Category 1 STOT Repeat Exposure H372

HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL **Precautions** 

HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL	CODE
Keep out of reach of children	P102
Obtain special instructions before use	P201
Do not handle until all safety precautions have been read and understood	P202
Keep only in original container	P234
Avoid breathing dust / fume / gas / mist / vapours / spray	P261
Do not get in eyes, on skin, or on clothing	P262
Wash thoroughly after handling	P264
Do not eat, drink or smoke when using this product	P270
Use only outdoors or in a well-ventilated area	P271
Contaminated work clothing should not be allowed out of the workplace	P272
Avoid release to the environment	P273
Wear protective gloves / protective clothing / eye protection / face protection	P280
In case of inadequate ventilation wear respiratory protection	P285
Absorb spillage to prevent material damage	P390
Collect spillage	P391

P403+P405+P233 Store in a well-ventilated place, Store locked up, Keep container tightly closed P406 Store in corrosive resistant container

P501 Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION - 3 COM	IPOSITION INFORMATION	(Exact percentage of the li	sted chemicals of composition has been with	nheld as a trade secret)
CHEMICAL NAME	<b>COMMON NAME AND SYNONYMS</b>	CAS#	<u>IMPURITIES</u>	<b>PERCENT</b>
Hydrochloric Acid	Muriatic Acid	7647-01-0	Water < 70%	1 - 15%
Iron(III) Chloride	Ferric Chloride Anhydrous	7705-08-0		1 - 20%
Sodium Dichromate	Sodium Dichromate Dihydrate; Sodium Bichromate	7789-12-0		1 - 20%

SECTION - 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical

attention

Inhaled Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical

attention, If breathing is difficult, oxygen or artificial respiration should be administered by qualified personnel

Ingested DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse

mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into

the lungs

Important Effects Exposure can / may affect, eyes, kidneys, liver, respiratory system, skin

Important Symptoms Symptoms may include, allergic skin reactions, liver or kidney irregulatories, corrosive burns to skin or eyes,

allergic asthmatic breathing reactions

# SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

**Hazardous Decomposition** Burning or thermal decomposition can produce, chlorine, hydrogen chloride gas, Iron oxides **Protective Equipment** Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

# SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment, NOTE: Organic spill kits that contain Floor-Dri, kitty litter, or sand should NOT be used because

Hydrogen Fluoride reacts with silica to produce silicon tetrafluoride, a toxic gas

Clean Up Procedures Neutralize spill with soda ash, lime, sodium bicarbonate, or a spill absorbent specified for Hydrogen Fluoride. With

clean shovel, carefully place material into clean appropriate waste disposal unit. Flush spill area with water, NOTE:

Neutralized Hydrofluoric Acid can still be Toxic, observe all safety precautions

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

# SECTION - 7 HANDLING AND STORAGE

**Handling** Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

HMIS HAZARD RATINGS

Health Flammability Reactivity Personal Protection

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, metal acetylides, permanganates, strong oxidizing agents,

alkaline earth metals

# SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Iron(III) Chloride			(as Fe) 1 mg/m <sup>3</sup>				
Sodium Dichromate	(as Cr) 0.05 mg/m <sup>3</sup>	(as Cr VI) 0.001 mg/m <sup>3</sup>	(as Cr) 0.005 mg/m <sup>3</sup>	(as Cr VI) 0.001 mg/m <sup>3</sup>	(as Cr) 0.001 mg/m <sup>3</sup>		

## **PERSONAL PROTECTION**

Hands



Wear safety glasses or goggles or face shield when handling / using this material Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

Page 3 of 5 DecoGel™ Acid Stain (Desert Amber) Revision Date 6/1/2021

## SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.179
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Amber	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 75%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 71%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 33.46
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

## SECTION - 10 STABILITY AND REACTIVITY

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, metal acetylides, permanganates, strong oxidizing agents,

alkaline earth metals

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, hydrogen chloride gas, Iron oxides

## SECTION – 11 TOXICOLOGICAL INFORMATION

## **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE

Eyes Causes serious eye damage

Skin May cause allergic skin reaction, Can cause serious skin damage

Inhalation Harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, breathing difficulties

**Ingestion** Harmful if swallowed, May affect target organs

# CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

Skin May cause allergic skin reaction, Causes serious skin damage, ulcerations, corrosive burns

Inhalation Harmful if inhaled, Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, asthmatic symptoms, May

affect target organs, respiratory system, liver, kidneys

Ingestion Harmful if swallowed, Ingestion may affect, liver, kidneys, respiratory system, Symptoms may include, nausea,

vomiting, abdominal pain, liver or kidney irregulatories

Acute Tox Calculate Oral: 754 mg/kg Dermal: 15,267 mg/kg Inhaled: 2.1 mg/l

 $\textbf{Acute Tox Category} \quad \text{Category 4 (Oral >300, } \leq 2,000 \text{ mg/kg), Not applicable (Dermal >2,000 \text{ mg/kg), Category 4 (Inhaled >1.0, } \leq 5 \text{ mg/l) Dust or Mist}$ 

Target Organs Kidneys, Liver, Mucous Membranes, Skin, Eyes, Respiratory System

Medical Conditions Preexisting, skin, liver, kidney, respiratory, mucous membranes, disorders may be aggravated by exposure to this

product

Notes to Physician Treat symptoms, No specific recommendations known

# **CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

CHEMICAL NAMENTPACGIHIARCGHS CategorySodium DichromateK (Known to be)A1 (Confirmed for human)1 (Proven for human)Category 1B

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

Sodium Dichromate Yes Yes

# **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(III) Chloride	LD50	Oral	Rat	316 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Sodium Dichromate	LD50	Oral	Rat	50 mg/kg		2 (>5, ≤50 mg/kg)
	LC50	Inhaled	Rat	0.124 mg/l	4 Hour (Dust)	1 (≤0.05 mg/l)
	LD50	Dermal	Rabbit	1000 mg/kg		4 (>1000, ≤2000 mg/kg)

r age + or o			Decoder Adia otalii (Desert Allist	01)	1101131	on bate or medal
SECTION - 12	ECOLOGICA	L INFORMATION	ON			
CHEMICAL NAME		<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	GHS Category
Hydrochloric Acid		LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Iron(III) Chloride		LC50	Bluegill (Lepomis macrochirus)	20.3 mg/l	96 Hours	3 (>10, ≤100 mg/l)
		EC50	Water flea (Daphnia magna)	12.9 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Sodium Dichromate		LC50	Fathead Minnow (Pimephales promelas)	33.2 mg/l	96 Hours	3 (>10, ≤100 mg/l)
		EC50	Green Algae (Selenastrum capricorn)	0.217 mg/l	96 Hours	1 (≤1 mg/l)
		EC50	Water Flea (Daphnia magna)	0.112 mg/l	48 Hours	1 (≤1 mg/l)
Presistence And De	egradability	When rele	eased into the soil, this material is not expe	ected to biodegra	ade	
Bioaccumulative P	otential	Has low po	otential for bioaccumulation due to its high	n solubility in wat	er	
Mobility In Soil		This mater	rial is a mobile liquid			
Other Adverse Effe	cts	Toxic to ac	quatic life with long lasting effects			

# SECTION - 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Container Disposal Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

# SECTION – 14 TRANSPORT INFORMATION

## **DOT CLASSIFICATION**

**Material Disposal** 

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Sodium Dichromate)

Hazard ClassPacking GroupLabel CodesReportable Quantity (lb)ResponseMarine PollutantHazard LabelSecondary8IICorrosive Liquid> (40,000)154No

**Additional Info:** 

					8	
SECTION – 15 REGULATOR	Y INFORMATION					
<u>TSCA</u>						
CHEMICAL NAME	Sec 8(b) Active Inv	ventory Sec 8(d	l) Health And Safety	Sec 4(a) Chemical Test	Rules Sec 12(b)	) Export Notification
Hydrochloric Acid	Yes					
Iron(III) Chloride	Yes					
Sodium Dichromate	Yes					
REPORTABLE QUANTITIES	Extremely Haza	rdous	Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302 EP	CRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112
Hydrochloric Acid			5000			
Iron(III) Chloride			1000			
Sodium Dichromate				Yes		
SARA	Section 311		Secti	on 311 / 312 Hazards	;	
CHEMICAL NAME	Hazardous Chemica	al Acute	e Chronic	Flammable	Pressure	Reactive

SAKA	Section 311 Section 311 / 312 Flazarus												
CHEMICAL NAME	Hazar	dous Ch	nemical		Acute	C	Chronic	F	lammable	- 1	Pressure		Reactive
Hydrochloric Acid		Yes			Yes								
Iron(III) Chloride		Yes		Yes									
Sodium Dichromate		Yes			Yes		Yes						Yes
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
Iron(III) Chloride	Yes					Yes		Yes			Yes	Yes	
Sodium Dichromate								Yes					

**CALIFORNIA** 

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth defects or reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

CHEMICAL NAME	CAS#	Birth Defects	Reproductive Harm	Carcinogen	Developmental
Chromium Compounds				Yes	

Page 5 of 5	DecoGel™ Acid Stain (Desert Amber)	Revision Date 6/1/202
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CLEAN AIR WATER ACTS		Clean Air	Acts	Clean W	Clean Water Acts			
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP	
Hydrochloric Acid	7647-01-0	Yes						

**INTERNATIONAL REGULATIONS** – The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes	Yes

# SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# Direct Colors LLC

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.



# SAFFTY DATA SHFFT

DecoGel™ Concret Acid Stain (English Red) **Revision Date** 6/5/2021

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION **SECTION - 1** 

**Product Name** DecoGel™ Concrete Acid Stain (English Red) Item

H290

H302

H314

H318

H335

H401

H411

H373

**Product Use** Concrete Stain & Dve

**Company Name** Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee OK 74801 Web www.DirectColors.com

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

#### **SECTION - 2** HAZARDS INFORMATION

**Pictogram** 







Signal Word

Hazards

Danger

PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

**HAZARD CATEGORY CLASSIFICATION** CODE May be corrosive to metals Category 1 Corrosive to Metals Harmful if swallowed Category 4 Acute Toxicity (Oral) Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) Category 1 Eye (Damage / Irritation) Causes serious eye damage Category 3 STOT Single Exposure May cause respiratory irritation Toxic to aquatic life Category 2 Acute Toxicity (Aquatic) Toxic to aquatic life with long lasting effects Category 2 Chronic Toxicity (Aquatic) May cause damage to organs through prolonged or repeated exposure Category 2 STOT Repeat Exposure

nervous systems, by inhalation of dust / mist, or ingestion

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

CODE Keep out of reach of children P102 Keep only in original container P234 Avoid breathing dust / fume / gas / mist / vapours / spray P261 P262 Do not get in eyes, on skin, or on clothing P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area P273 Avoid release to the environment P280 Wear protective gloves / protective clothing / eye protection / face protection In case of inadequate ventilation wear respiratory protection P285 P390 Absorb spillage to prevent material damage P391

P403+P405+P233 Store in a well-ventilated place, Store locked up, Keep container tightly closed

P406 Store in corrosive resistant container Dispose of material in accordance with all State and Federal Guidelines and Regulations P501

SECTION – 3 COMPOSIT	ON INFORMATION	(Exact percentage of the listed chemicals of composition has been withheld as a trade se							
CHEMICAL NAME	<b>COMMON NAME AND SYNONYMS</b>	CAS#	<u>IMPURITIES</u>	<b>PERCENT</b>					
Hydrochloric Acid	Muriatic Acid	7647-01-0	Water < 70%	1 - 15%					
Iron(II) Chloride	Ferrous Chloride Tetrahydrate	13478-10-9		1 - 10%					
Iron(III) Chloride	Ferric Chloride Anhydrous	7705-08-0		1 - 20%					
Copper(II) Chloride Dihydrate	Cupric Chloride Dihydrate; Copper Chloride	10125-13-0		1 - 10%					
Manganese(II) Chloride	Manganese Dichloride	7773-01-5		1 - 10%					

#### FIRST AID MEASURES **SECTION - 4**

Collect spillage

**Eye Contact** Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure to remove any contaminated clothing and wash before reuse. If irritation is present or occurs obtain medical

attention

**Skin Contact** 

Disposal

Inhaled Move person to fresh air, if they have problem breathing, show signs of overexposure or feel unwell obtain medical attention, Only give artificial respiration if breathing has stopped. Do not use mouth-to-mouth method if victim

ingested or inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-

way valve or other proper respiratory medical device

DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse Ingested

> mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into

the lungs

Important Effects Exposure can / may affect, eyes, liver, nervous systems, respiratory, skin

**Important Symptoms** Symptoms may include, liver or kidney irregulatories, corrosive burns to skin or eyes, respiratory irritation,

neurological disorders

#### **FIRE FIGHTING MEASURES** SECTION - 5

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

**Explosion Hazard** Not applicable

**Protective Equipment** Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

#### SECTION - 6 **ACCIDENTAL RELEASE MEASURES**

**Emergency Procedures** Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

**Protective Equipment** Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water.

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Dispose of material in accordance with all State and Federal Guidelines and Regulations

#### HANDLING AND STORAGE **SECTION - 7**

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

**Incompatible Materials** Incompatible with, aldehydes, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong acids, strong oxidizing agents, alkaline earth metals, aluminum, zinc

#### **EXPOSURE CONTROLS / PERSONAL PROTECTION SECTION - 8**

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Iron(II) Chloride	(as Fe) 1mg/m³						
Iron(III) Chloride			(as Fe) 1 mg/m³				
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m³		(as Cu) 1 mg/m³				Dust, Mist
Manganese(II) Chloride	0.1 mg/m <sup>3</sup>		5 mg/m³		1 mg/m³	3 mg/m³	CNS

# PERSONAL PROTECTION



HMIS HAZARD RATINGS Health Flammability Reactivity Personal Protection

**Eves** Wear safety glasses or goggles or face shield when handling / using this material Hands Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

"If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when Body

handling / using this material

"If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling Feet

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

Ventilation Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

# SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.288
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Red	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 78%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 63%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 43.77
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

## SECTION - 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, aldehydes, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong acids, strong oxidizing agents, alkaline earth metals, aluminum, zinc

## SECTION – 11 TOXICOLOGICAL INFORMATION

#### **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

Skin Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation

Ingestion Harmful if swallowed, May affect target organs

# CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

Skin Causes serious skin damage, dermatitis, ulcerations, corrosive burns

Inhalation Mist, vapor or fumes may cause, respiratory irritation

Ingestion Harmful if swallowed, Ingestion may affect, liver, nervous system, Symptoms may include, nausea, vomiting,

abdominal pain, liver or kidney irregulatories, neurological disorders

Acute Tox Calculate Oral: 1,937 mg/kg Dermal: 30,038 mg/kg Inhaled: > 20 mg/l

 $\textbf{Acute Tox Category} \quad \text{Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg), Not applicable (Dermal > 2,000 \text{ mg/kg), Not applicable (Inhaled > 5 \text{ mg/l}) } \\ \textbf{Dust or Mist} \quad \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg), Not applicable (Inhaled > 5 \text{ mg/l}) } \\ \textbf{Dust or Mist} \quad \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg), Not applicable (Inhaled > 5 \text{ mg/l}) } \\ \textbf{Dust or Mist} \quad \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Category 4 (Oral > 300, } \leq 2,000 \text{ mg/kg}), \\ \textbf{Acute Tox Categ$ 

Target Organs Liver, Skin, Eyes, Respiratory System, Nervous Systems

Medical Conditions Preexisting, eye, skin, liver, respiratory, nervous systems, disorders may be aggravated by exposure to this product

Notes to Physician Treat symptoms, No specific recommendations known

# <u>CARCINOGENIC – This product contains concentrations above 0.1% of the following:</u>

CHEMICAL NAMENTPACGIHIARCGHS CategoryNone ListedNANANANA

# MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

None Listed NA NA

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	GHS Category
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(II) Chloride	LD50	Oral	Rat	500 mg/kg		4 (>300, ≤2000 mg/kg)
Iron(III) Chloride	LD50	Oral	Rat	316 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Manganese(II) Chloride	LD50	Oral	Rat (F)	236 mg/kg		3 (>50, ≤300 mg/kg)
Copper(II) Chloride Dihydrate	LD50	Oral	Rat	584 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1224 mg/kg		4 (>1000, ≤2000 mg/kg)

SECTION - 12 ECOLOGIC	AL INFORMA	TION			
CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Iron(II) Chloride	LC50	Japanese Ricefish (Oryzias latipes)	46 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Green Algae (Pseudokirchneriella s.)	6.9 mg/l	72 Hours	2 (>1, ≤10 mg/l)
	EC50	Water Flea (Daphnia magna)	19 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Iron(III) Chloride	LC50	Bluegill (Lepomis macrochirus)	20.3 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Water flea (Daphnia magna)	12.9 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Manganese(II) Chloride	EC50	Water Flea (Daphnia magna)	9.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)
	EC50	Green Algea (Pseudokirchneriella s.)	3.83 mg/l	72 Hours	2 (>1, ≤10 mg/l)
Copper(II) Chloride Dihydrate	LC50	Rainbow Trout (Oncorhynchus mykiss)	0.286 mg/l	96 Hours	1 (≤1 mg/l)
	EC50	Algae (Pseudokirchneriella s.)	0.05 mg/l	72 Hours	1 (≤1 mg/l)
	NOEC	Water Flea (Daphnia magna)	0.368 mg/l	21 Days	1 (≤1 mg/l)
Presistence And Degradability	When re	eleased into the soil, this material is not expe	cted to biodegra	ade	
Bioaccumulative Potential	Has low	potential for bioaccumulation due to its high	solubility in wat	er	
Mobility In Soil	This ma	terial is a mobile liquid			
Other Adverse Effects	Toxic to	aquatic life with long lasting effects			

#### **DISPOSAL CONSIDERATIONS** SECTION – 13

**Disposal Statement** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

**Container Disposal** Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal **Material Disposal** 

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

#### SECTION - 14 TRANSPORT INFORMATION

**REGULATORY INFORMATION** 

## **DOT CLASSIFICATION**

**UN Number** Proper Shipping Name n.o.s. (Chemicals ) or "Limits"

Sec 8(b) Active Inventory

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s.(Hydrochloric Acid, Copper(II) Chloride)

Hazard Class Packing Group **Label Codes** Marine Pollutant Hazard Label Secondary Reportable Quantity (lb) Response 8 Corrosive Liquid (435) = 10 Cupric Chloride 154 No

Sec 8(d) Health And Safety

Sec 4(a) Chemical Test Rules

Sec 12(b) Export Notification

**Additional Info:** 

**SECTION - 15** 

CHEMICAL NAME

**TSCA** 

Hydrochloric Acid		Υe	s										
Iron(II) Chloride		Υe	s										
Iron(III) Chloride		Υe	s										
Manganese(II) Chloride		Υe	:S										
REPORTABLE QUANTITIES		Extremely	Hazardou	IS		Reportable (	Quantity	Emission	Reporting				
CHEMICAL NAME	EPCRA TE	Q Sec 302	EPCR/	RQ Sec	304 CERCLA RQ Sec 103		TRI Sec 313		RC	RCRA Code		7 TQ Sec 112	
Hydrochloric Acid						5000	)						
Iron(III) Chloride						1000	0						
Cupric Chloride						10		Υ	'es				
<u>SARA</u>	Se	Section 311					Section	on 311 / 3	12 Hazaro	s			
CHEMICAL NAME	Hazar	<b>Hazardous Chemical</b>			Acute	(	Chronic Flam		ammable	Pressure			Reactive
Hydrochloric Acid		Yes			Yes								
Iron(II) Chloride		Yes			Yes		Yes						
Iron(III) Chloride		Yes			Yes								
Manganese(II) Chloride		Yes			Yes								
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
Iron(III) Chloride	Yes					Yes		Yes			Yes	Yes	
Manganese(II) Chloride								Yes					

None Listed

**Revision Date** WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth **CALIFORNIA** defects or reproductive harm. For more information go to www.P65Warnings.ca.gov **CHEMICAL NAME** CAS# **Birth Defects** Reproductive Harm Carcinogen Developmental

CLEAN AIR WATER ACTS		Acts	Clean Water Acts				
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Hydrochloric Acid	7647-01-0	Yes					

INTERNATIONAL REGULATIONS - The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes
Iron(II) Chloride	Yes	Yes	Yes	Yes	Yes	Yes
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes	Yes

#### **OTHER INFORMATION** SECTION - 16

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

#### **Direct Colors LLC**

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.



**SECTION - 1** 

# SAFFTY DATA SHFFT

DecoGel™ Concrete Acid Stain (Malayan Buff) Revision Date 5/26/2021

Item

**HAZARD CATEGORY CLASSIFICATION** 

CODE

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name DecoGel™ Concrete Acid Stain (Malayan Buff)

Product Use Concrete Stain & Dye

Company Name Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee OK 74801 Web www.DirectColors.com

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

## SECTION - 2 HAZARDS INFORMATION

**Pictogram** 







Signal Word Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

May be corrosive to metals Category 1 Corrosive to Metals H290 Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) H314 Causes serious eve damage Category 1 Eye (Damage / Irritation) H318 Category 3 STOT Single Exposure H335 May cause respiratory irritation Category 4 Chronic Toxicity (Aquatic) H413 May cause long lasting harmful effects to aquatic life Category 2 STOT Repeat Exposure H373 May cause damage to organs through prolonged or repeated exposure

liver

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL CODE

P102 Keep out of reach of children P234 Keep only in original container Avoid breathing dust / fume / gas / mist / vapours / spray P261 Do not get in eyes, on skin, or on clothing P262 P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area P271 Avoid release to the environment P273 P280 Wear protective gloves / protective clothing / eye protection / face protection P285 In case of inadequate ventilation wear respiratory protection

Absorb spillage to prevent material damage

Store in a well-ventilated place, Store locked up, Keep container tightly closed

P390

P403+P405+P233

Store in corrosive resistant container P406
Dispose of material in accordance with all State and Federal Guidelines and Regulations P501

 SECTION - 3
 COMPOSITION INFORMATION
 (Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

 CHEMICAL NAME
 COMMON NAME AND SYNONYMS
 CAS #
 IMPURITIES
 PERCENT

 Hydrochloric Acid
 Muriatic Acid
 7647-01-0
 Water < 70%</td>
 1 - 15%

 Iron(II) Chloride
 Ferrous Chloride Tetrahydrate
 13478-10-9
 1 - 10%

 Iron(III) Chloride
 Ferric Chloride Anhydrous
 7705-08-0
 1 - 10%

# SECTION – 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical

attention

Inhaled Not applicable under normal use. If irritation is experienced, move person to fresh air

Ingested DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or

poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep

head below hips to prevent aspiration into the lungs

Important Effects Exposure can / may affect, eyes, liver, skin

Important Symptoms Symptoms May include, liver or kidney irregulatories, corrosive burns to skin or eyes, respiratory irritation

#### SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, hydrogen chloride gas, Iron oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

## SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water,

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

#### SECTION - 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

**HMIS HAZARD RATINGS** 

Health Flammability Reactivity Personal Protection

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, metal acetylides, permanganates, strong acids, strong

oxidizing agents, metals, alkaline earth metals

## SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>EXPOSURE LIMITS</b>							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Iron(II) Chloride	(as Fe) 1mg/m³						
Iron(III) Chloride			(as Fe) 1 mg/m <sup>3</sup>				

#### PERSONAL PROTECTION

Hands

Eves Wear safety glasses or

Wear safety glasses or goggles or face shield when handling / using this material Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilation Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

## SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.12
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Tan	Boiling Point	ND
Odor	Acdic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 80%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 75%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 21.59
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

Page 3 of 5 DecoGel™ Acid Stain (Malayan Buff)

SECTION - 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, amines, bases, hexalithium disilicide, metal acetylides, permanganates, strong acids, strong

**Revision Date** 

5/26/2021

oxidizing agents, metals, alkaline earth metals

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, hydrogen chloride gas, Iron oxides

## SECTION – 11 TOXICOLOGICAL INFORMATION

### **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

### **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

**Skin** Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation

**Ingestion** May be harmful if swallowed

### CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness

Skin Causes serious skin damage, dermatitis, ulcerations, corrosive burns

**Inhalation** Mist, vapor or fumes may cause, respiratory irritation

Ingestion May be harmful if swallowed, Ingestion may affect, liver, Symptoms may include, nausea, vomiting, abdominal pain,

liver or kidney irregulatories

Acute Tox Calculate Oral: 4,926 mg/kg Dermal: 100,00 mg/kg Inhaled: > 20 mg/kg

Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist

Target Organs Liver, Skin, Eyes, Respiratory System

Medical Conditions Preexisting, eye, skin, liver, respiratory, disorders may be aggravated by exposure to this product

Notes to Physician Treat symptoms, No specific recommendations known

### CARCINOGENIC - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME NTP ACGIH IARC GHS Category

None Listed NA NA NA NA

## MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction

None Listed NA NA

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(II) Chloride	LD50	Oral	Rat	500 mg/kg		4 (>300, ≤2000 mg/kg)
Iron(III) Chloride	LD50	Oral	Rat	316 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000  mg/kg		(>2000 mg/kg)

## SECTION – 12 ECOLOGICAL INFORMATION

CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	GHS Category
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)
Iron(II) Chloride	LC50	Japanese Ricefish (Oryzias latipes)	46 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Green Algae (Pseudokirchneriella s.)	6.9 mg/l	72 Hours	2 (>1, ≤10 mg/l)
	EC50	Water Flea (Daphnia magna)	19 mg/l	48 Hours	3 (>10, ≤100 mg/l)
Iron(III) Chloride	LC50	Bluegill (Lepomis macrochirus)	20.3 mg/l	96 Hours	3 (>10, ≤100 mg/l)
	EC50	Water flea (Daphnia magna)	12.9 mg/l	48 Hours	3 (>10, ≤100 mg/l)

Presistence And Degradability When released into the soil, this material is not expected to biodegrade

Bioaccumulative Potential Has low potential for bioaccumulation due to its high solubility in water

Mobility In Soil This material is a mobile liquid

Other Adverse Effects Toxic to aquatic life with long lasting effects

**Material Disposal** 

#### **SECTION - 13 DISPOSAL CONSIDERATIONS**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER **Disposal Statement** 

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty **Container Disposal** drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

> This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components. Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

#### SECTION - 14 TRANSPORT INFORMATION

### **DOT CLASSIFICATION**

**UN Number** Proper Shipping Name n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Iron(III) Chloride)

Reportable Quantity (lb) Hazard Class Packing Group Response **Marine Pollutant Label Codes** Hazard Label Secondary > (40,000) Ш Corrosive Liquid 154 8 No

**Additional Info:** 

SECTION - 15	REGULATORY INFORMATION				
<u>TSCA</u>					
CHEMICAL NAME	Sec 8(b) Active Inventory	Sec 8(d) Health And Safety	Sec 4(a) Chemical Test Rules	s Sec 12(l	b) Export Notification
Hydrochloric Acid	Yes				
Iron(II) Chloride	Yes				
Iron(III) Chloride	Yes				
REPORTABLE QUAN	NTITIES Extremely Hazardous	Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EDCDA TDO Sec 302 EDCDA DO S	ac 304 CEDCLA DO Sac 103	TDI Sec 313 DI	CBA Code	DMD TO Sec 112r

Hydrochloric Acid 5000 Iron(III) Chloride 1000

SARA	Section 311	Section 311 / 312 Hazards				
CHEMICAL NAME	<b>Hazardous Chemical</b>	Acute	Chronic	Flammable	Pressure	Reactive
Hydrochloric Acid	Yes	Yes				
Iron(II) Chloride	Yes	Yes	Yes			
Iron(III) Chloride	Yes	Yes				

- ( )														
RIGHT TO KNOW						STATE								
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI	
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes		
Iron(III) Chloride	Yes					Yes		Yes			Yes	Yes		

WARNING: This Product can expose you to chemicals (Listed below) known to the State of California to cause cancer, birth **CALIFORNIA** defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

CHEMICAL NAME CAS# **Birth Defects** Reproductive Harm Carcinogen Developmental None Listed

CLEAN AIR WATER ACTS		Clean Air	Acts		Clean W	ater Acts	
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Hydrochloric Acid	7647-01-0	Yes					

INTERNATIONAL REGULATIONS - The components of this product are listed on the chemical investigation.	entories of the following countries:
--	--------------------------------------

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes
Iron(II) Chloride	Yes	Yes	Yes	Yes	Yes	Yes
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes	Yes

## SECTION – 16 OTHER INFORMATION

<u>SDS</u>	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG / IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

# Direct Colors LLC

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-- End of Safety Data Sheet --



**SECTION - 1** 

# SAFETY DATA SHEET

DecoGel™ Concrete Acid Stain (Seagrass) Revision Date 5/26/2021

Category 1

Category 1

Category 1

Category 3

Category 2

Category 2

Category 2

**HAZARD CATEGORY CLASSIFICATION** 

Category 1B Skin & Eye (Corrosion)

Corrosive to Metals

Eye (Damage / Irritation)

STOT Single Exposure

Acute Toxicity (Aquatic)

Chronic Toxicity (Aquatic)

STOT Repeat Exposure

Sensitization (Respiratory)

CODE

H290

H314

H318

H334

H335

H401

H411

H373

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name DecoGel™ Concrete Acid Stain (Seagrass) Item

Product Use Concrete Stain & Dye

Company Name Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee OK 74801 Web www.DirectColors.com

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

### SECTION - 2 HAZARDS INFORMATION

**Pictogram** 







Signal Word

Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause respiratory irritation
Toxic to aquatic life

May cause damage to organs through prolonged or repeated exposure

nervous systems, by inhalation of dust / mist, or ingestion

Toxic to aquatic life with long lasting effects

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL CODE

Keep out of reach of children P102 P234 Keep only in original container Avoid breathing dust / fume / gas / mist / vapours / spray P261 P262 Do not get in eyes, on skin, or on clothing P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area P271 P273 Avoid release to the environment P280 Wear protective gloves / protective clothing / eye protection / face protection In case of inadequate ventilation wear respiratory protection P285 P390 Absorb spillage to prevent material damage P391 Collect spillage

Store in a well-ventilated place, Store locked up, Keep container tightly closed P403+P405+P233

Store in corrosive resistant container

P406

Dispose of material in accordance with all State and Federal Guidelines and Regulations

P501

SECTION – 3 CO	MPOSITION INFORMATION	(Exact percentage of t	the listed chemicals of composition has been withheld as a trade	secret)
CHEMICAL NAME	<b>COMMON NAME AND SYNONYMS</b>	CAS#	<u>IMPURITIES</u> <u>PE</u>	<u>RCENT</u>
Hydrochloric Acid	Muriatic Acid	7647-01-0	Water < 70%	1 - 15%
Chromium(III) Chloride	Chromium(III) Chloride Hexahydrate	10060-12-5		0.1 - 10%
Copper(II) Chloride Dihy	drate Cupric Chloride Dihydrate; Copper Chloride	10125-13-0		1 - 20%
Manganese(II) Chloride	Manganese Dichloride	7773-01-5		0.1 - 10%

## SECTION – 4 FIRST AID MEASURES

Eye Contact Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical

attention

Inhaled Not applicable under normal use. If irritation is experienced, move person to fresh air

Ingested DO NOT INDUCE VOMITING, rinse mouth with water, and drink small quantities of water, Call a physician, or

poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep

head below hips to prevent aspiration into the lungs

Important Effects Exposure can / may affect, blood, digestive system, eyes, kidneys, liver, nasal septum, nervous systems,

respiratory, skin, spleen

Important Symptoms Symptoms may include, allergic skin reactions, liver or kidney irregulatories, digestive tract burns, corrosive burns

to skin or eyes, respiratory irritation, allergic asthmatic breathing reactions, neurological disorders, nasal septum

perforation, spleen disorders

SECTION - 5 FIRE FIGHTING MEASURES

**Extinguishing Media** Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, magnesium oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

SECTION - 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water,

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Dispose of material in accordance with all State and Federal Guidelines and Regulations

SECTION - 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation. Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

HMIS HAZARD RATINGS

Health
Flammability
Reactivity
Personal Protection

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, alkalies, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong oxidizers, alkaline earth metals, aluminum, zinc

## SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>EXPOSURE LIMITS</b>							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Chromium(III) Chloride	(as Cr) 0.5 mg/m3		(as Cr) 0.5 mg/m3				
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m³		(as Cu) 1 mg/m³				Dust, Mist
Manganese(II) Chloride	0.1 mg/m <sup>3</sup>		5 mg/m³		1 mg/m³	3 mg/m³	CNS

# PERSONAL PROTECTION

Disposal



Eyes Wear safety glasses or goggles or face shield when handling / using this material

Hands Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

Page 3 of 5 DecoGel™ Acid Stain (Seagrass) Revision Date 5/26/2021

## SECTION - 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.23
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Blue Green	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 78%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 68%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 34.84
LVP-VOC	0%	<b>Decomposition Temperature</b>	ND

## SECTION - 10 STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

Chemical Stability Stable under normal ambient and anticipated conditions of use

Hazardous Polymerization Will not occur

Conditions To Avoid Incompatible materials

Incompatible Materials Incompatible with, alkalies, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong oxidizers, alkaline earth metals, aluminum, zinc

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, magnesium oxides

## SECTION – 11 TOXICOLOGICAL INFORMATION

## **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

### **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

Eyes Causes serious eye damage

Skin May cause allergic skin reaction, Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, asthmatic symptoms

Ingestion May be harmful if swallowed, May affect target organs

## CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, burning, pain, or vision impairment

Skin Causes serious skin damage, dermatitis, allergic skin reaction, ulcerations, corrosive burns

Inhalation Mist, vapor or fumes may cause, respiratory irritation, allergic reactions, asthmatic symptoms, nasal septum perforation

Ingestion May be harmful if swallowed, Ingestion may affect, liver, kidneys, spleen, blood, nervous system, Symptoms may

include, digestive tract burns, nausea, vomiting, liver or kidney irregulatories, neurological disorders, spleen disorders

Acute Tox Calculate Oral: 3,551 mg/kg Dermal: 11,439 mg/kg Inhaled: > 20 mg/kg

Acute Tox Category Not applicable (Oral >2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist

Target Organs Blood, Kidneys, Liver, Skin, Spleen, Eyes, Respiratory System, Nervous Systems, Nasal Cavities

Medical Conditions Preexisting, eye, skin, blood, respiratory, nervous systems, sinus, sensitization, disorders may be aggravated by

exposure to this product

Notes to Physician Treat symptoms, No specific recommendations known

## **CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

CHEMICAL NAME	<u>NTP</u>	<u>ACGIH</u>	<u>IARC</u>	GHS Category
None Listed	NA	NA	NA	NA

## MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

<u>CHEMICAL NAME</u> <u>Germ Cell Mutagenicity</u> <u>Toxic to Reproduction</u>

None Listed NA NA

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	GHS Category
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Manganese(II) Chloride	LD50	Oral	Rat (F)	236 mg/kg		3 (>50, ≤300 mg/kg)
Copper(II) Chloride Dihydrate	LD50	Oral	Rat	584 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1224 mg/kg		4 (>1000, ≤2000 mg/kg)
Chromium(III) Chloride	LD50	Oral	Rat	1,790 mg/kg		4 (>1000, ≤2000 mg/kg)

		200000: 7.0.a 0.a (00ag.a00)				
SECTION – 12 ECOLOGICAL	INFORMATI	ON				
CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	GHS Category	
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)	
Manganese(II) Chloride	EC50	Water Flea (Daphnia magna)	9.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)	
	EC50	Green Algea (Pseudokirchneriella s.)	3.83 mg/l	72 Hours	2 (>1, ≤10 mg/l)	
Copper(II) Chloride Dihydrate	LC50	Rainbow Trout (Oncorhynchus mykiss)	0.286 mg/l	96 Hours	1 (≤1 mg/l)	
	EC50	Algae (Pseudokirchneriella s.)	0.05 mg/l	72 Hours	1 (≤1 mg/l)	
	NOEC	Water Flea (Daphnia magna)	0.368 mg/l	21 Days	1 (≤1 mg/l)	
Presistence And Degradability	When rele	eased into the soil, this material is not expe	ected to biodegra	ade		
Bioaccumulative Potential	Bioaccumulative Potential Has low potential for bioaccumulation due to its high solubility in water					
Mobility In Soil	obility In Soil This material is a mobile liquid					
Other Adverse Effects	Toxic to a	quatic life with long lasting effects				

#### **DISPOSAL CONSIDERATIONS SECTION - 13**

**Disposal Statement** DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty **Container Disposal** 

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

#### TRANSPORT INFORMATION SECTION - 14

**REGULATORY INFORMATION** 

## **DOT CLASSIFICATION**

**Material Disposal** 

**UN Number** Proper Shipping Name n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s.(Hydrochloric Acid, Copper(II) Chloride)

Hazard Class Packing Group Reportable Quantity (lb) Marine Pollutant Hazard Label Secondary Label Codes Response (93) = 10 Cupric Chloride 8 Ш Corrosive Liquid 154 Nο

**Additional Info:** 

SECTION - 15

<u>TSCA</u>													
CHEMICAL NAME	Se	c 8(b) Activ	e Invent	ory	Sec 8(d)	Health And S	Safety	Sec 4(a) C	nemical Tes	st Rules	Sec 12(I	o) Export	Notification
Hydrochloric Acid		Ye	S										
Manganese(II) Chloride		Ye	S										
REPORTABLE QUANTITIES		Extremely	Hazardo	us		Reportable C	Quantity	Emission	Reporting				
CHEMICAL NAME	EPCRA TE	Q Sec 302	EPCR	A RQ Sec	304	CERCLA RQ	Sec 103	TRI S	ec 313	RC	RA Code	RMP	TQ Sec 112r
Hydrochloric Acid						5000	)						
Chromium Compounds						&		3	13				
Cupric Chloride						10		Y	es				
SARA	Se	ection 311					Secti	on 311 / 3	12 Hazaro	ds			
CHEMICAL NAME	Hazar	dous Che	mical		Acute	(	Chronic	Fla	mmable	ı	Pressure		Reactive
Hydrochloric Acid		Yes			Yes								
Chromium(III) Chloride		Yes			Yes								
Manganese(II) Chloride		Yes			Yes								
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	СТ	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	Yes	
Chromium(III) Chlorid				Yes		Yes		Yes			Yes	Yes	
Manganese(II) Chloride								Yes					

defects or reproductive harm. For more information go to www.P65Warnings.ca.gov

**CHEMICAL NAME** CAS# **Birth Defects** Reproductive Harm Carcinogen Developmental None Listed

Page 5 of 5	DecoGel™ Acid Stain (Seagrass)	Revision Date 5/26/2021
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CLEAN AIR WATER ACTS		Clean Air	Acts		Clean Wa	ater Acts	
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Hydrochloric Acid	7647-01-0	Yes					
Chromium(III) Chloride	10060-12-5	Yes					Yes

INTERNATIONAL REGULATIONS	The components of this product are listed on the chemical inventories of the following countries:					
CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes
Chromium(III) Chloride						

## SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
ACGIH	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

## **Direct Colors LLC**

and nCites LLC have compiled the information herein from sources believed to be reliable and up-to-date, and is accurate to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources or the completeness and expressly do not make warranties, nor assume any liability for its use. The information contained herein is provided for reference purposes only and is intended only for persons having relevant technical skills. Because conditions and manner of use are outside of our control, the user is responsible for determining the conditions of safe use of the product. Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries, losses, or damages to persons or property arising from the use of this product or information.



**SECTION - 1** 

# SAFFTY DATA SHFFT

DecoGel™ Concrete Acid Stain (Shifting Sand) Revision Date 5/27/2021

**HAZARD CATEGORY CLASSIFICATION** 

P391

CODE

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name DecoGel™ Concrete Acid Stain (Shifting Sand) Item

Product Use Concrete Stain & Dye

Company Name Direct Colors LLC Office (877) 255-2656 ext.1

430 E 10th St

Shawnee OK 74801 Web www.DirectColors.com

**EMERGENCY TELEPHONE NUMBER INFOTRAC (800) 535-5053** 

### SECTION - 2 HAZARDS INFORMATION

**Pictogram** 







Signal Word

rd Danger

Hazards PHYSICAL / HEALTH / ENVIRONMENTAL HAZARD STATEMENTS

May be corrosive to metals Category 1 Corrosive to Metals H290 Harmful if swallowed Category 4 Acute Toxicity (Oral) H302 Causes severe skin burns and eye damage Category 1B Skin & Eye (Corrosion) H314 Category 1 Eye (Damage / Irritation) H318 Causes serious eye damage Category 3 STOT Single Exposure H335 May cause respiratory irritation H401 Category 2 Acute Toxicity (Aquatic) Toxic to aquatic life Toxic to aquatic life with long lasting effects Category 2 Chronic Toxicity (Aquatic) H411 May cause damage to organs through prolonged or repeated exposure Category 2 STOT Repeat Exposure H373

liver, nervous systems, by inhalation of dust / mist, or ingestion

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL CODE

Keep out of reach of children P102 P234 Keep only in original container Avoid breathing dust / fume / gas / mist / vapours / spray P261 P262 Do not get in eyes, on skin, or on clothing P264 Wash thoroughly after handling P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area P273 Avoid release to the environment P280 Wear protective gloves / protective clothing / eye protection / face protection In case of inadequate ventilation wear respiratory protection P285 P390 Absorb spillage to prevent material damage

Store in a well-ventilated place, Store locked up, Keep container tightly closed

P403+P405+P233

Store in corrosive resistant container

P406

Dispose of material in accordance with all State and Federal Guidelines and Regulations

P501

SECTION - 3 **COMPOSITION INFORMATION** (Exact percentage of the listed chemicals of composition has been withheld as a trade secret) **COMMON NAME AND SYNONYMS CHEMICAL NAME IMPURITIES PERCENT** CAS# Hydrochloric Acid Muriatic Acid 7647-01-0 Water < 70% 1 - 15% Copper(II) Chloride Dihydrate Cupric Chloride Dihydrate; Copper Chloride 10125-13-0 1 - 20% Iron(II) Chloride Ferrous Chloride Tetrahydrate 13478-10-9 1 - 20% Manganese(II) Chloride Manganese Dichloride 7773-01-5 1 - 10%

## SECTION – 4 FIRST AID MEASURES

Collect spillage

Eye Contact Immediately flush eyes with cold water for at least 15 minutes while lifting upper and lower eyelids, Remove

contact lenses if present and easy to do without injury to the eye and continue rinsing, Obtain immediate medical

attention, preferably from an ophthalmologist or Emergency Room

Skin Contact Immediately wash contaminated skin with a nonabrasive soap and plenty of water for at least 15 minutes, Be sure

to remove any contaminated clothing and wash before reuse, If irritation is present or occurs obtain medical

attention

Inhaled Not applicable under normal use. If irritation is experienced, move person to fresh air

**Revision Date** 

5/27/2021

DO NOT INDUCE VOMITING, unless directed to do so by medical personnel, If person is fully conscious, rinse mouth with water, and drink small quantities of water, Call a physician, or poison control center, and get medical attention, If victim feels nauseous stop drinking, If vomiting occurs, keep head below hips to prevent aspiration into

the lungs

Important Effects Exposure can / may affect, blood, digestive system, eyes, kidneys, liver, nasal septum, nervous systems,

respiratory, skin, spleen

Important Symptoms Symptoms may include, liver or kidney irregulatories, digestive tract burns, corrosive burns to skin or eyes,

respiratory irritation, blood disorders, neurological disorders, nasal septum perforation, spleen disorders

## SECTION - 5 FIRE FIGHTING MEASURES

Extinguishing Media Not flammable: Use extinguishing media for surrounding fire

Explosion Hazard Not applicable

Hazardous Decomposition Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, Iron oxides,

magnesium oxides

Protective Equipment Use MSHA/NIOSH approved self-contained breathing apparatus and full protective gear

### SECTION – 6 ACCIDENTAL RELEASE MEASURES

Emergency Procedures Warn personnel of spill, Stop spill or release only if it can be done safely, Keep unprotected personnel from

entering the hazard area, Ventilate area

Personal Precautions Follow all safety precautions, Wear Personal Protective Equipment, Do not walk through spill

Protective Equipment Safety Glasses, Gloves, Chemical Apron, Rubber Boots

Containment Use rags, towels, absorbent socks or pads to prevent spill from spreading, Prevent spill from entering the

environment

Clean Up Procedures Small Spills: Use wet vacuum or mop and wringer to pick up spilled material then mop area with clean water.

Large Spills: Absorb spill with inert material, place in a chemical waste container, mop area with clean water

Disposal Dispose of material in accordance with all State and Federal Guidelines and Regulations

## SECTION – 7 HANDLING AND STORAGE

Handling Do not get in eyes, on skin, or clothing, Avoid breathing mist, vapors or fumes, Use appropriate safety equipment,

and adequate ventilation, Do not smoke, eat or drink while using, Wash thoroughly with soap and water after

handling, Avoid release to the environment

Storage Keep container closed when not in use, Store in a cool place away from incompatible materials, Store in corrosive

resistant container

Incompatible Materials Incompatible with, alkalies, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong acids, strong oxidizing agents, alkaline earth metals, aluminum, zinc

## SECTION – 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS							Significant
CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Exposure
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m³)		5 ppm (CEIL)	ED,SD,RT
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m³		(as Cu) 1 mg/m³				Dust, Mist
Iron(II) Chloride	(as Fe) 1mg/m³						
Manganese(II) Chloride	0.1 mg/m <sup>3</sup>		5 mg/m³		1 mg/m³	3 mg/m³	CNS

# **PERSONAL PROTECTION**



HMIS HAZARD RATINGS
Health
Flammability
Reactivity
O
Personal Protection
H

Eyes Wear safety glasses or goggles or face shield when handling / using this material Wear chemical resistant impervious gloves when handling / using this material

Lungs Wear a MSHA / NIOSH approved respirator at or above listed TLV's or if irritation is experienced

Body "If Situation Requires" - Wear chemical resistant impervious protective clothing if exposure is considered to be likely when

handling / using this material

Feet "If Situation Requires" - Wear chemical resistant impervious footwear if exposure is considered to be likely when handling

/ using this material

Response Access to a drench shower with eye wash station is a recommended safety precaution for handling / using this type of

material

Ventilate to keep vapors of this material below the lowest ppm listed above, If over Threshold Limit Value use a MSHA /

NIOSH approved respirator for organic vapor, supplied air or self-contained breathing apparatus

SECTION - 9 PI	HYSICAL AND CHEMICAL PROPERTIES		
Flash Point	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.398
Flammable Limits (v)	ND	pH (± 0.3)	< 2.0
Auto-Ignition Temp.	ND	Viscosity (mm <sup>2</sup> s / cSt)	ND
Physical State	Viscous Liquid	Melting Point	ND
Appearance	Beige	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 76%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 60%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 75.48
LVP-VOC	0%	Decomposition Temperature	ND

#### **SECTION - 10** STABILITY AND REACTIVITY

Reactivity No specific test data related to reactivity available for this product or its ingredients

**Chemical Stability** Stable under normal ambient and anticipated conditions of use

**Hazardous Polymerization** Will not occur

**Conditions To Avoid** Incompatible materials

**Incompatible Materials** Incompatible with, alkalies, amines, bases, hexalithium disilicide, hydrogen peroxide, metal acetylides,

permanganates, potassium, sodium, strong acids, strong oxidizing agents, alkaline earth metals, aluminum, zinc

**Hazardous Decomposition** Burning or thermal decomposition can produce, chlorine, copper oxides, hydrogen chloride gas, Iron oxides,

magnesium oxides

#### **TOXICOLOGICAL INFORMATION** SECTION - 11

#### **ROUTES OF EXPOSURE**

Eyes (Yes), Skin (Yes), Ingestion (Yes), Inhalation (Yes)

## **ACUTE SYMPTOMS OF SINGLE OVEREXPOSURE**

**Eves** Causes serious eye damage

Skin Can cause serious skin damage, dermatitis

Inhalation Mist, vapor or fumes may cause, respiratory irritation Ingestion Harmful if swallowed, May affect target organs

## CHRONIC SYMPTOMS OF PROLONGED OR REPEATED OVEREXPOSURE

Eyes Causes serious eye damage, corneal injury, partial or complete blindness Skin Causes serious skin damage, dermatitis, ulcerations, corrosive burns

Inhalation Mist, vapor or fumes may cause, respiratory irritation, nasal septum perforation

Ingestion Harmful if swallowed, Ingestion may affect, liver, kidneys, spleen, blood, nervous system, Symptoms may include.

digestive tract burns, nausea, vomiting, liver or kidney irregulatories, neurological disorders, spleen disorders

**Acute Tox Calculate** Oral: 1,706 mg/kg 8,559 mg/kg > 20 mg/l

Category 4 (Oral >300, ≤2,000 mg/kg), Not applicable (Dermal >2,000 mg/kg), Not applicable (Inhaled >5 mg/l) Dust or Mist **Acute Tox Category** 

**Target Organs** Blood, Kidneys, Liver, Skin, Spleen, Eyes, Respiratory System, Nervous Systems, Nasal Cavities

**Medical Conditions** Preexisting, eye, skin, liver, kidney, blood, respiratory, spleen, nervous systems, sinus, disorders may be aggravated by

exposure to this product

Notes to Physician Treat symptoms, No specific recommendations known

# **CARCINOGENIC – This product contains concentrations above 0.1% of the following:**

**CHEMICAL NAME** NTP **ACGIH IARC GHS Category** None Listed NA NA NA NA

## MUTAGENIC AND REPRODUCTIVE EFFECTS - This product contains concentrations above 0.1% of the following:

**CHEMICAL NAME Germ Cell Mutagenicity Toxic to Reproduction** 

NA NA None Listed

## **COMPONENTS ACUTE TOXICITY**

CHEMICAL NAME	<u>Type</u>	<u>Form</u>	<u>Subject</u>	Result Value	Exposure Time	<b>GHS Category</b>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l	4 Hours (Mist)	(>20 mg/l)
Iron(II) Chloride	LD50	Oral	Rat	500 mg/kg		4 (>300, ≤2000 mg/kg)
Manganese(II) Chloride	LD50	Oral	Rat (F)	236 mg/kg		3 (>50, ≤300 mg/kg)
Copper(II) Chloride Dihydrate	LD50	Oral	Rat	584 mg/kg		4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rabbit	1224 mg/kg		4 (>1000, ≤2000 mg/kg)

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SECTION – 12 ECOLOGIC	AL INFORMA	TION						
CHEMICAL NAME	<u>Type</u>	Subject Subject Latin	Result Value	Exposure Time	<b>GHS Category</b>			
Hydrochloric Acid	LC50	Mosquito Fish (Gambusia affinis)	282 mg/l	96 Hours	4 (>100 mg/l)			
Iron(II) Chloride	LC50	Japanese Ricefish (Oryzias latipes)	46 mg/l	96 Hours	3 (>10, ≤100 mg/l)			
	EC50	Green Algae (Pseudokirchneriella s.)	6.9 mg/l	72 Hours	2 (>1, ≤10 mg/l)			
	EC50	Water Flea (Daphnia magna)	19 mg/l	48 Hours	3 (>10, ≤100 mg/l)			
Manganese(II) Chloride	EC50	Water Flea (Daphnia magna)	9.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)			
	EC50	Green Algea (Pseudokirchneriella s.)	3.83 mg/l	72 Hours	2 (>1, ≤10 mg/l)			
Copper(II) Chloride Dihydrate	LC50	Rainbow Trout (Oncorhynchus mykiss)	0.286 mg/l	96 Hours	1 (≤1 mg/l)			
	EC50	Algae (Pseudokirchneriella s.)	0.05 mg/l	72 Hours	1 (≤1 mg/l)			
	NOEC	Water Flea (Daphnia magna)	0.368 mg/l	21 Days	1 (≤1 mg/l)			
Presistence And Degradability	When released into the soil, this material is not expected to biodegrade							
Bioaccumulative Potential	Has low potential for bioaccumulation due to its high solubility in water							
Mobility In Soil	This mat	This material is a mobile liquid						
Other Adverse Effects	Toxic to aquatic life with long lasting effects							

## SECTION - 13 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER

Dispose of any waste in accordance with all State and Federal Guidelines and Regulations

Container Disposal Empty containers retain product residue (vapors, liquid or solid) observe all precautions when handling, Empty

drums should be returned to distributor or taken to an approved waste handling site for recycling or disposal

Material Disposal

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulation

This material as supplied, when discarded or disposed of, is a hazardous waste according to Federal Regulations (40 CFR 261) due to its composition containing in some or all of its components, Under RCRA rules, it is the responsibility of the user of the product to determine, at the time of disposal, whether the material is a hazardous waste, Chemical additions, processing or otherwise altering this material may make the waste management

information presented in this SDS incomplete, inaccurate, or otherwise inappropriate

## SECTION – 14 TRANSPORT INFORMATION

**REGULATORY INFORMATION** 

CAS#

#### **DOT CLASSIFICATION**

<u>UN Number</u> <u>Proper Shipping Name</u> n.o.s. (Chemicals ) or "Limits"

UN 3264 CORROSIVE, LIQUID, ACIDIC, INORGANIC, n.o.s. (Hydrochloric Acid, Copper(II) Chloride)

Hazard ClassPacking GroupLabel CodesReportable Quantity (lb)ResponseMarine PollutantHazard LabelSecondary8IICorrosive Liquid(70) = 10 Cupric Chloride154No

**Additional Info:** 

**CHEMICAL NAME** 

None Listed

<u>TSCA</u>													
CHEMICAL NAME	Sec 8(b) Active Inventory Sec 8(d) Health And Safety					Safety	Sec 4(a) C	hemical Te	st Rules	Sec 12(I	) Export	Notification	
Hydrochloric Acid		Ye	S										
Iron(II) Chloride		Ye	s										
Manganese(II) Chloride		Ye	s										
REPORTABLE QUANTITIES		Extremely Hazardous Reportable Quantity					Quantity	Emission	Reporting				
CHEMICAL NAME	EPCRA TP	Q Sec 302	EPCRA	A RQ Sec 304 CERCLA RQ Sec 103			TRIS	Sec 313	RC	RA Code	RMP	TQ Sec 112	
Hydrochloric Acid						500	0						
Cupric Chloride						10	)	Y	'es				
SARA	Se	Section 311 Se				Secti	tion 311 / 312 Hazards						
CHEMICAL NAME	Hazardous Chemical Acu		Acute		Chronic Flammable			Pressure		Reactive			
Hydrochloric Acid		Yes			Yes								
Iron(II) Chloride		Yes			Yes		Yes						
Manganese(II) Chloride		Yes			Yes								
RIGHT TO KNOW						STATE							
CHEMICAL NAME	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI	WI
Hydrochloric Acid	Yes				Yes	s Yes	Yes	Yes		Yes	Yes	Yes	
Manganese(II) Chloride								Yes					
CALIFORNIA WARNING: 1 defects or re		•	•			•	•			Califorr	nia to cau	se cano	er, birth

Reproductive Harm

Carcinogen

Developmental

**Birth Defects** 

Page 5 of 5	DecoGel™ Acid Stain (Shifting Sand)	Revision Date	5/27/2021
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CLEAN AIR WATER ACTS		Clean Air	Acts		Clean W	ater Acts	
CHEMICAL NAME	CAS#	HAP	Ozone Class 1	Ozone Class 2	HS	PP	TP
Hydrochloric Acid	7647-01-0	Yes					

INTERNATIONAL REGULATIONS - The components of this product are listed on the chemical inventories of the following countries:

CHEMICAL NAME	Australia	Canada	Europe (EINECS)	Japan	Korea	UK
Hydrochloric Acid	Yes	Yes	Yes	Yes	Yes	Yes
Iron(II) Chloride	Yes	Yes	Yes	Yes	Yes	Yes

## SECTION – 16 OTHER INFORMATION

SDS	LEGEND DESCRIPTION		
~	Approximately	KD	Kidney Damage (nephropathy)
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists	LC50	A concentration that is lethal to 50% of a given species in a given time
CAS	Chemical Abstracts Service Registry	LD50	Dose that is lethal to 50% of a given species by a given route of exposure
CEIL	Ceiling Limit (15 minutes)	LEL	Lower Explosive Limit
CERCL	Comprehensive Environmental Response, Compensation, and Liability Act	LD	Liver Damage
CI	Cochlear Impairment	NA	Not Applicable
CNS	Central Nervous System	ND	Not Determined
EC50	Concentration of a chemical that gives half-maximal response	NE	Not Established
EPA	Environmental Protection Agency	NFPA	National Fire Protection Association
Eye	(EI = Irritation) (ED = Damage) (EV = Visual Impairment)	NIOSH	National Institute for Occupational Safety and Health
FBG	Full Bunker Gear	NTP	National Toxicology Program
GHS	Globally Harmonized System	OSHA	Occupational Safety and Health Administration
HAP	California Hazardous Air Pollutant Clean Air Act	PEL	Permissible Exposure Limit (OSHA)
HMIS-A	Safety glasses	PNS	Peripheral Nervous System
HMIS-B	Safety glasses, gloves	PP	California Priority Pollutant under the Clean Water Act
HMIS-C	Safety glasses, gloves, chemical apron	REL	Recommended exposure limit (NIOSH)
HMIS-D	Face shield, gloves, chemical apron	RT	Upper Respiratory Tract
HMIS-E	Safety glasses, gloves, dust respirator	Skin	(SI = Irritation) (SD = Damage) (SA = Absorption) (SS = Sensitizer)
HMIS-F	Safety glasses, gloves, chemical apron, dust respirator	SARA	Superfund Amendments and Reauthorization Act
HMIS-G	Safety glasses, gloves, vapor respirator	STEL	Short Term Exposure Limit (15 minutes)
HMIS-H	Splash goggles, gloves, chemical apron, vapor respirator	TC Lo	Lowest concentration that is toxic to a given species in a given time
HMIS-I	Safety glasses, gloves, dust and vapor respirator	TD Lo	Lowest dose that is toxic to a given species
HMIS-J	Splash goggles, gloves, chemical apron, dust and vapor respirator	TLV	Threshold Limit Value (ACGIH)
HMIS-K	Air line hood or mask, gloves, full chemical suit, boots	TP	California Toxic Pollutant under the Clean Water Act
HMIS-X	Ask Supervisor	TSCA	Toxic Substances Control Act
HS	California Hazardous Substance under the Clean Water Act	TWA	Time Weighted Average (8 hours) - NOISH (10 hours)
IG/IH	(IG = Ingested) / (IH = Inhaled - Vapors / Mists / Gas)	UEL	Upper Explosive Limit

## Direct Colors LLC

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