SAFETY DATA SHEET

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

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name **DecoGel™ Concrete Acid Stain (English Red)** **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	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
Causes serious eye damage	Category 1	Eye (Damage / Irritation)	H318
May cause respiratory irritation	Category 3	STOT Single Exposure	H335
Toxic to aquatic life	Category 2	Acute Toxicity (Aquatic)	H401
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
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
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
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)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
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%

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, 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, 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

SECTION – 5 FIRE FIGHTING MEASURES

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
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

CHEMICAL NAME	ACGIH (TWA 8)	ACGIH (STEL)	OSHA (TWA 8)	OSHA (CEIL)	NIOSH (TWA 10)	NIOSH (STEL)	Significant 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/m³		5 mg/m³		1 mg/m³	3 mg/m³	CNS

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
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	> 93.3ºC (200ºF) - TAG Closed Cup	**Specific Gravity / Density**	~ 1.288
Flammable Limits (v)	ND	**pH (± 0.3)**	< 2.0
Auto-Ignition Temp.	ND	**Viscosity (mm²s / 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%	**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, 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

Acute Tox Category 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 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

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	Type	Form	Subject	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 ECOLOGICAL INFORMATION

CHEMICAL NAME	Type	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)
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 material is a mobile liquid

Other Adverse Effects 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

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, Copper(II) Chloride)

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

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 Rules	Sec 12(b) Export Notification
Hydrochloric Acid	Yes			
Iron(II) Chloride	Yes			
Iron(III) Chloride	Yes			
Manganese(II) Chloride	Yes			

REPORTABLE QUANTITIES

	Extremely Hazardous		Reportable Quantity	Emission Reporting		
CHEMICAL NAME	EPCRA TPQ Sec 302	EPCRA RQ Sec 304	CERCLA RQ Sec 103	TRI Sec 313	RCRA Code	RMP TQ Sec 112r
Hydrochloric Acid			5000			
Iron(III) Chloride			1000			
Cupric Chloride			10	Yes		

SARA

	Section 311	Section 311 / 312 Hazards				
CHEMICAL NAME	Hazardous Chemical	Acute	Chronic	Flammable	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	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	
Manganese(II) Chloride								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** www.P65Warnings.ca.gov

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

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(II) Chloride	Yes	Yes	Yes	Yes	Yes	Yes
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes	Yes

SECTION – 16 OTHER INFORMATION

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

Direct Colors LLC

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-- End of Safety Data Sheet --