

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name DecoGel™ Concrete Acid Stain (Avocado) **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 respiratory irritation
Toxic to aquatic life
Toxic to aquatic life with long lasting effects

HAZARD CATEGORY CLASSIFICATION **CODE**

Category 1 Corrosive to Metals H290
Category 1B Skin & Eye (Corrosion) H314
Category 1 Eye (Damage / Irritation) H318
Category 3 STOT Single Exposure H335
Category 2 Acute Toxicity (Aquatic) H401
Category 2 Chronic Toxicity (Aquatic) H411

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

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, 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, respiratory, skin, spleen
Important Symptoms	Symptoms may include, liver or kidney irregularities, 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 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, alkalis, alkaline materials, amines, hexalithium disilicide, metal acetylides, permanganates, potassium, sodium, strong oxidizing agents, metals, aluminum

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
Iron(III) Chloride			(as Fe) 1 mg/m ³				
Copper(II) Chloride Dihydrate	(as Cu) 1 mg/m ³		(as Cu) 1 mg/m ³				Dust, Mist
Hydrochloric Acid		2 ppm (CEIL)		5 ppm (7 mg/m ³)		5 ppm (CEIL)	ED,SD,RT

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	> 93.3°C (200°F) - TAG Closed Cup	Specific Gravity / Density	~ 1.313
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	Avocado Green	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 79%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 64%	Partition Coefficient	ND
VOC	0%	Molecular Weight (g/mol)	~ 40.63
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, 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 irregularities, spleen disorders

Acute Tox Calculate	Oral: 2,607 mg/kg	Dermal: 8,244 mg/kg	Inhaled: > 20 mg/l
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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
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Target Organs	Blood, Kidneys, Liver, Skin, Spleen, Eyes, Respiratory System, Nasal Cavities
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Medical Conditions	Preexisting, eye, skin, liver, kidney, blood, respiratory, spleen, sinus, disorders may be aggravated by exposure to this product
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Notes to Physician	Treat symptoms, No specific recommendations known
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CARCINOGENIC – This product contains concentrations above 0.1% of the following:

<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:

<u>CHEMICAL NAME</u>	<u>Germ Cell Mutagenicity</u>	<u>Toxic to Reproduction</u>
None Listed	NA	NA

COMPONENTS ACUTE TOXICITY

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Form</u>	<u>Subject</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
Hydrochloric Acid	LD50	Oral	Rat	700 mg/kg	4 Hours (Mist)	4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	5,010 mg/kg		(>2000 mg/kg)
	LC50	Inhaled	Rat	781 mg/l		(>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

<u>CHEMICAL NAME</u>	<u>Type</u>	<u>Subject</u>	<u>Subject Latin</u>	<u>Result Value</u>	<u>Exposure Time</u>	<u>GHS Category</u>
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
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Bioaccumulative Potential	Has low potential for bioaccumulation due to its high solubility in water
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Mobility In Soil	This material is a mobile liquid
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Other Adverse Effects	Toxic to aquatic life with long lasting effects
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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
8	II	Corrosive Liquid	(74) = 10 Copper(II) 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
Iron(III) Chloride	Yes			
Hydrochloric Acid	Yes			

REPORTABLE QUANTITIES

CHEMICAL NAME	Extremely Hazardous		Reportable Quantity	Emission Reporting		
	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

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

RIGHT TO KNOW

CHEMICAL NAME	STATE											
	CA	CT	FL	IL	LA	NJ	NY	PA	MI	MN	MA	RI
Iron(III) Chloride	Yes					Yes		Yes			Yes	Yes
Hydrochloric Acid	Yes				Yes	Yes	Yes	Yes		Yes	Yes	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

CHEMICAL NAME	CAS #	Clean Air Acts			Clean Water Acts		
		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
Iron(III) Chloride	Yes	Yes	Yes	Yes	Yes	Yes
Hydrochloric Acid	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
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 --