

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	DecoGel™ Concrete Acid Stain (Desert Amber)	Item
	Modified Duplicate	
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
Harmful if swallowed
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
Toxic to aquatic life with long lasting effects
Causes damage to organs through prolonged or repeated exposure
kidneys, liver

HAZARD CATEGORY CLASSIFICATION CODE

Category 1	Corrosive to Metals	H290
Category 4	Acute Toxicity (Oral)	H302
Category 1B	Skin & Eye (Corrosion)	H314
Category 1	Sensitization (Skin)	H317
Category 1	Eye (Damage / Irritation)	H318
Category 4	Acute Toxicity (Inhaled) DM	H332
Category 1	Sensitization (Respiratory)	H334
Category 3	STOT Single Exposure	H335
Category 1	Germ Cell Mutagenicity	H340
Category 1	Carcinogenicity	H350
Category 1	Toxic To Reproduction	H360
Category 2	Acute Toxicity (Aquatic)	H401
Category 2	Chronic Toxicity (Aquatic)	H411
Category 1	STOT Repeat Exposure	H372

Precautions HANDLING / PROTECTION / FIRE / STORAGE / DISPOSAL

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

CODE

P102
P201
P202
P234
P261
P262
P264
P270
P271
P272
P273
P280
P285
P390
P391
P403+P405+P233
P406
P501

SECTION – 3 COMPOSITION INFORMATION

(Exact percentage of the listed chemicals of composition has been withheld as a trade secret)

<u>CHEMICAL NAME</u>	<u>COMMON NAME AND SYNONYMS</u>	<u>CAS #</u>	<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%
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 irregularities, 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 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**

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(III) Chloride			(as Fe) 1 mg/m³				
Sodium Dichromate	(as Cr) 0.05 mg/m³	(as Cr VI) 0.001 mg/m³	(as Cr) 0.005 mg/m³	(as Cr VI) 0.001 mg/m³	(as Cr) 0.001 mg/m³		

PERSONAL PROTECTION

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

HMIS HAZARD RATINGS

Health	3
Flammability	0
Reactivity	0
Personal Protection	H

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 (mm²s / 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%	Decomposition Temperature	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 irregularities

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

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

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

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 Hour (Dust)	4 (>300, ≤2000 mg/kg)
	LD50	Dermal	Rat	> 2,000 mg/kg		(>2000 mg/kg)
Sodium Dichromate	LD50	Oral	Rat	50 mg/kg	4 Hour (Dust)	2 (>5, ≤50 mg/kg)
	LC50	Inhaled	Rat	0.124 mg/l		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
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 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**

<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)					
<u>Hazard Class</u>	<u>Packing Group</u>	<u>Label Codes</u>	<u>Reportable Quantity (lb)</u>	<u>Response</u>	<u>Marine Pollutant</u>	<u>Hazard Label</u>	<u>Secondary</u>
8	II	Corrosive Liquid	> (40,000)	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(III) Chloride	Yes			
Sodium Dichromate	Yes			

REPORTABLE QUANTITIES

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

SARA

CHEMICAL NAME	Section 311	Section 311 / 312 Hazards
	Hazardous Chemical	Acute Chronic Flammable Pressure Reactive
Hydrochloric Acid	Yes	Yes
Iron(III) Chloride	Yes	Yes
Sodium Dichromate	Yes	Yes Yes

RIGHT TO KNOW

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 www.P65Warnings.ca.gov

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

CLEAN AIR 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
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 --