

SECTION – 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name DecoGel™ Concrete Acid Stain (Coffee Brown) **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
Harmful if swallowed
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Causes serious eye damage
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
May cause damage to organs through prolonged or repeated exposure
nervous systems, by inhalation of dust / mist, or ingestion

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 1 Sensitization (Respiratory) H334
Category 3 STOT Single Exposure H335
Category 1B Germ Cell Mutagenicity H340
Category 1B Carcinogenicity H350
Category 1B Toxic To Reproduction H360
Category 2 Acute Toxicity (Aquatic) H401
Category 2 Chronic Toxicity (Aquatic) H411
Category 1 STOT Repeat Exposure H372
Category 2 STOT Repeat Exposure H373

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)

CHEMICAL NAME	COMMON NAME AND SYNONYMS	CAS #	IMPURITIES	PERCENT
Hydrochloric Acid	Muriatic Acid	7647-01-0	Water < 70%	1 - 15%
Iron(III) Chloride	Ferric Chloride Anhydrous	7705-08-0		1 - 20%
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	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 irregularities, 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**

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
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/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	~ 1.342
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	Brown	Boiling Point	ND
Odor	Acidic	Vapor Density (air=1)	ND
Odor Threshold	ND	Vapor Pressure (mmHg)	ND
Solubility	< 73%	Evaporation Rate (nBuAc=1)	ND
Volatiles	< 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 irregularities, neurological disorders

Acute Tox Calculate Oral: 1,041 mg/kg Dermal: 21,277 mg/kg Inhaled: 6.9 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 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	NTP	ACGIH	IARC	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	Yes

COMPONENTS ACUTE TOXICITY

CHEMICAL NAME	Type	Form	Subject	Result Value	Exposure Time	GHS Category
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 Hours (Mist)	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	4 Hour (Dust)	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		1 (≤0.05 mg/l)
	LD50	Dermal	Rabbit	1000 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)
Manganese(II) Chloride	EC50	Water Flea	(Daphnia magna)	9.8 mg/l	48 Hours	2 (>1, ≤10 mg/l)
	EC50	Green Algae	(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 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**

<u>CHEMICAL NAME</u>	<u>Sec 8(b) Active Inventory</u>	<u>Sec 8(d) Health And Safety</u>	<u>Sec 4(a) Chemical Test Rules</u>	<u>Sec 12(b) Export Notification</u>
Hydrochloric Acid	Yes			
Manganese(II) Chloride	Yes			
Iron(III) Chloride	Yes			
Sodium Dichromate	Yes			

REPORTABLE QUANTITIES

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			
Sodium Dichromate				Yes		

SARA

CHEMICAL NAME	Hazardous Chemical	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

RIGHT TO KNOW

<u>CHEMICAL NAME</u>	<u>CA</u>	<u>CT</u>	<u>FL</u>	<u>IL</u>	<u>LA</u>	<u>NJ</u>	<u>NY</u>	<u>PA</u>	<u>MI</u>	<u>MN</u>	<u>MA</u>	<u>RI</u>	<u>WI</u>
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					

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 #	Clean Air Acts HAP	Ozone Class 1	Ozone Class 2	Clean Water Acts 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
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

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 --