

MSDS.420 – HYDRA-STONE™ Dye Stain & Reducer

Revised: 2.19.08

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1, using the International Chemical Safety Cards of the Global Harmonizing System.

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)

IMPORTANT: Read this MSDS before handling & disposing of this product.

Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: HYDRA-STONE™ Dye Stain
COMPANY IDENTITY: Elite Crete Systems, Inc.
COMPANY ADDRESS: 1061 Transport Drive
COMPANY CITY: Valparaiso, Indiana 46383
COMPANY PHONE: 1-219-465-7671
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 90-100% 1-METHOXY-2-PROPANOL (107-98-2),
0 - 2% COPPER PHTHALOCYANINE DYESTUFF (MIXTURE),
0 - 2% CHROMIUM III COMPLEX YELLOW DYE (MIXTURE),
0 - 2% CHROMIUM C.I.SOLVENT RED 119 (MIXTURE),
0 - 2% CHROMIUM C.I. SOLVENT BLACK 29 (ORASOL BLACK RLI) (117527-94-3)

Number in parentheses is CAS #, number in brackets is European EC #.

SECTION 3. HAZARDS IDENTIFICATION

EXPOSURE PREVENTION: PREVENT DISPERSION OF MISTS OR DUST!

RISK STATEMENTS:

R36/37/38 Irritating to eyes, respiratory system and skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R10 Flammable.

SAFETY STATEMENTS:

S2 Keep out of the reach of children.
S22 Do not breathe dust.
S24 Avoid contact with skin.
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:

For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:

In case of contact with skin immediately remove contaminated clothing. Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:

After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, trained personnel should immediately begin artificial respiration. If the heart has stopped, trained personnel should immediately begin cardiopulmonary resuscitation (CPR).

SWALLOWING:

Rinse mouth. Give plenty of water to drink. Do NOT induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY. Do not give liquids to an unconscious or convulsing person.

SECTION 5. FIRE FIGHTING MEASURES

FIRE & EXPLOSION PREVENTIVE MEASURES

NO open flames, NO sparks, & NO smoking. Above flash point, use a closed system, ventilation, explosion-proof electrical equipment and lighting.

EXTINGUISHING MEDIA

Use dry powder, alcohol-resistant foam, water spray, carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear. (Helmet with face shield, bunker coats, gloves & rubber boots).
Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES

FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE

Keep container tightly closed. Isolate from oxidizers, heat, sparks, electric equipment & open flame. Closed containers may explode if exposed to extreme heat. Applying to hot surfaces requires special precautions. Empty container very hazardous! Continue all label precautions!
Check for peroxides prior to distillation, eliminate if found.

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE MEASURES:

Keep unprotected personnel away. Remove all ignition sources. P2 Filter respirator for harmful particles.

CONTAINMENT AND CLEAN-UP MEASURES:

Stop spill at source. Dike and contain. Sweep spilled material into dry, sealable containers. If appropriate, moisten first to prevent dusting.
Wash away remainder with plenty of water. Do Not let this chemical enter the environment.

SECTION 7. HANDLING AND STORAGE

HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Do not use on toys, furniture or surfaces of other articles which might be used by children.
Wash hands thoroughly after using & before smoking or eating.
Use only with adequate ventilation.
Avoid breathing of vapor or spray mist.
Avoid prolonged or repeated contact with skin.
Wear OSHA Standard goggles or face shield.
Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.
Avoid free fall of liquid.
Ground containers when transferring.
Do not flame cut, saw, drill, braze, or weld.
Empty container very hazardous!
Continue all label precautions!
Check for peroxides prior to distillation, eliminate if found.

STORAGE

Keep in fireproof surroundings. Keep separated from strong oxidants. Keep cool.
Keep in the dark. Do not store above 49 C/120 F.
Keep container tightly closed & upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

RESPIRATORY EXPOSURE CONTROLS

A respiratory protection program that meets OSHA 29 CFR 1910.134 and ANSI Z86.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

VENTILATION

LOCAL EXHAUST : Necessary
MECHANICAL (GENERAL) : Acceptable
SPECIAL : None
OTHER : None

Please refer to ACGIH document, "Industrial Ventilation, A Manual of "Recommended Practices", most recent edition, for details.

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.
Wash at end of each work shift & before eating, smoking or using the toilet.
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

APPEARANCE : Liquid, Various Colors
ODOR : Mild

BOILING RANGE :	118 118 123* C / 245 245 255* F (*=End Point)		
AUTO IGNITION TEMPERATURE :	426 C / 800 F (Lowest Component)		
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.9		
FLASH POINT (TEST METHOD):	32 C / 90 F (TCC)		
FLAMMABILITY CLASSIFICATION:	Class I C		
GRAVITY @ 68/68 F / 20/20 C :			
API :	19.0		
SPECIFIC GRAVITY (Water=1) :	0.940		
POUNDS/GALLON :	7.830		
VOC'S (>0.44 Lbs/Sq In) :	0.0 Vol. % /	0.0 g/L /	0.000 Lbs/Gal
TOTAL VOC'S (TVOC) :	96.0 Vol. % /	887.0 g/L /	7.389 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	96.0 Vol. % /	887.0 g/L /	7.389 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS) :	0.0 Wt. % /	0.0 g/L /	0.000 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C	8.0		
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)	8.0		
VAPOR DENSITY (air=1) :	3.1		
WATER ABSORPTION :	Complete		
REFRACTIVE INDEX :	1.404		

SECTION 10. STABILITY & REACTIVITY

STABILITY

Stable under normal conditions. Do not store in temperatures over 120°F/49°C.

CONDITIONS TO AVOID

Isolate from humidity, oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID

The substance can presumably form explosive peroxides under the influence of light and air. Check for peroxide prior to distillation, eliminate if found. Reacts with strong oxidants, acid chlorides, acid anhydrides, causing fire & explosion hazard. Reacts with aluminum. Reacts with amines.

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon Monoxide, Carbon Dioxide, Chromium and Copper Oxides from burning.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
1-Methoxy-2-propanol	107-98-2	None Known	100 ppm	No
Copper Phthalocyanine Dyestuff	Mixture	None Known	None Known	No
Chromium III Complex Yellow Dye	Mixture	None Known	None Known	No
Chromium C.I.Solvent Red 119	Mixture	None Known	None Known	No
Chromium C.I.Solvent Black 29 (Orasol Black RLI)	117527-94-3	None Known	None Known	No

This product contains no EPA Hazardous Air Pollutants (HAP) in amounts > 0.1%.

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
1-Methoxy-2-propanol	107-98-2	None Known	150 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:

Primary irritation to skin, defatting, dermatitis. Absorption thru skin increases exposure.

Primary irritation to eyes, redness, tearing, blurred vision.

Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:

Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.

Breathing vapor can cause irritation. Acute overexposure can cause harm to kidneys, blood, nerves, liver, lungs.

SWALLOWING:

Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGRAVATED

CONDITIONS AGGRAVATED

Chronic overexposure can cause harm to kidneys, blood, nerves, liver, lungs. Persons with severe skin, liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:

Prolonged or repeated contact may result in dermatitis. May cause kidney and/or liver damage based on animal data.
 Contains material which can cause central nervous system damage. Product may contain impurities which may alter toxic properties.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LOWEST KNOWN LD50 (ORAL)	LETHAL DOSE DATA
Propylene Glycol Methyl Ether	107-98-2	5230.0 mg/kg(Rats)	
Propylene Glycol Methyl Ether	107-98-2	LOWEST KNOWN LD50 (SKIN) 14100.0 mg/kg (Rabbits)	

AQUATIC ANIMAL INFORMATION:

Acute and prolonged toxicity to fish:
CHROMIUM C.I. SOLVENT BLACK 29 (ORASOL BLACK RLI) (117527-94-3)
 carp: LC50 (96 hr): about 2 mg/L

MOBILITY

This material is a mobile liquid.

DEGRADABILITY

This product is completely biodegradable.

ACCUMULATION

Bioaccumulation of this product has not been determined. Well eliminable from water by adsorption on activated sludge.
 Colorants are by their nature very stable and are therefore not readily biodegradable under conditions prevailing in surface water or in effluent treatment plants.

SECTION 13. DISPOSAL CONSIDERATIONS

Processing, use or contamination may change the waste management options. Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws. If in doubt, contact appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: RQ, Paint Related Material
 (Contains: 1-Methoxy-2-propanol, Chromium C.I. Solvent Black 29), 3, UN 3092, PG-III
DRUM LABEL: (FLAMMABLE LIQUID)
IATA / ICAO: RQ, Paint Related Material
 (Contains: 1-Methoxy-2-propanol, Chromium C.I. Solvent Black 29), 3, UN 3092, PG-III
IMO / IMDG: RQ, Paint Related Material
 (Contains: 1-Methoxy-2-propanol, Chromium C.I. Solvent Black 29), 3, UN 3092, PG-III
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:

SARA SECTION 311/312 HAZARDS: Acute Health, Chronic Health, Fire
 All components of this product are on the TSCA list.
SARA Title III Section 313 Supplier Notification
 This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDS's that are copied and distributed for this material.

SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
1-Methoxy-2-propanol	107-98-2	96 (311,312)	None
*Copper Phthalocyanine Dyestuff	Mixture	< 2 (311,312,313)	None
Chromium III Complex Yellow Dye	Mixture	< 2 (311,312,313)	None
Chromium C.I.Solvent Red 119	Mixture	< 2 (311,312,313)	None
Chromium C.I.Solvent Black 29 (Orasol Black RLI)	117527-94-3	< 2 (311,312,313)	>= 1

Any release equal to or exceeding the RQ must be reported to the National Response Center (800-424-8802) and appropriate state and local regulatory agencies as described in 40 CFR 302.6 and 40 CFR 355.40 respectively.
Failure to report may result in substantial civil and criminal penalties.
State & local regulations may be more restrictive than federal regulations.

STATE REGULATIONS:

THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA AQMD RULE 443.1 & SIMILAR REGULATIONS

CALIFORNIA PROPOSITION 65: This product contains the following chemicals known to the State of California to cause cancer:

INTERNATIONAL REGULATIONS

The components of this product are listed on the chemical inventories of the following countries:
Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:

HEALTH (NFPA): 2, HEALTH (HMIS): 1, FLAMMABILITY: 3, REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING

See Section 3 for Risk & Safety Statements. Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.

Unless updated, this Material Safety Data Sheet is valid until 02/02/2014.