

Material Safety Data Sheet

Stone Color Enhancer®

Date of Preparation: November, 1997

Revision: November, 2005

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Stone Color Enhancer™

Chemical Formula: Mixture

CAS Number: Mixture – See Below

Other Designations: None

General Use: Stone color enhancer and sealer for unpolished stone materials

Manufacturer: Stone Care International Inc. P.O. Box #703, Owings Mills, Maryland 21117-0703

Phone: 410-783-0045

24-Hour Phone Number for Medical & Spill Emergencies: 1-800-535-5053

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt.
Mineral Spirits	8052-41-3	75-87 %
Acrylic Polymer (non-hazardous)	Not Provided	10-15 %
D-Limonene	68647-72-3	2-10 %
1,2,4-Trimethylbenzene (component of mineral spirits mixture)	95-63-6	< 3%
Trimethylated Silica	68988-56-7	< 2%
Tetraisopropoxy Titanate	546-68-9	< 2%

Ingredient	CAS #	OSHA		ACGIH		NIOSH		IDLH
		PEL	STEL	TLV	STEL	REL	STEL	
Mineral Spirits	8052-41-3	500 ppm	NE	100 ppm	NE	350 ppm	1800 ppm (C)	5000 ppm
1,2,4-Trimethylbenzene	95-63-6	NE	NE	25 ppm	NE	25 ppm	NE	NE
Trimethylated Silica*	68988-56-7	NE	NE	NE	NE	NE	NE	NE
Tetraisopropoxy Titanate†	546-68-9	NE	NE	NE	NE	NE	NE	NE

* The manufacturer's occupational exposure level is established at 5 mg/m³ as a dust.

† This substance will form isopropyl alcohol when in contact with water or moisture. Use exposure limits for isopropyl for this component. (PEL 400 ppm; TLV 400 ppm).

(c) Ceiling level

There are numerous ingredients in this product in trace amounts besides those listed. Mineral spirits includes various component solvents. (< 0.5 %). No trace ingredients at concentrations above 0.1% are known human carcinogens as recognized by NTP, OSHA or IARC.

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Inhalation of Mist, Skin Contact, Eye Exposure, Ingestion.

Target Organs: Skin, Respiratory System, Eyes. Like most solvents, effects to the central nervous system, liver and kidneys are possible with overexposure. G.I tract upset and irritation with ingestion. Blood system and bone marrow effects with inhalation over-exposures.

HMIS	
H	2
F	2
R	0
PPE†	H
†Sec. 8	

Acute Effects

Inhalation: High vapor concentrations are irritating to the respiratory system and may cause central nervous system effects such as dizziness, headache, drowsiness and unconsciousness or even death. Heating this product will increase vapor generation.

Eye: Contact with vapors may result in irritation. Direct eye contact may cause irritation and inflammation.

Skin: Irritation, de-fatting and drying of the skin. May cause chemical dermatitis or sensitization with repeated contact.

Ingestion: Harmful if ingested. Causes nausea, vomiting and irritation of the gastro-intestinal tract. Chemical pneumonia and severe lung damage could result from aspiration of this product into the lungs as a result of vomiting or ingestion.

Chronic Effects

Carcinogenicity: IARC, NTP, and OSHA do not list any of the component ingredients of this product as confirmed human carcinogens. For additional toxicological information see section 11.

Medical Conditions Aggravated by Long-Term Exposure: Dermatoses may be aggravated by repetitive or prolonged contact. Disorders involving the respiratory system, liver, kidneys, or G.I. tract could be aggravated.

Section 4 - First Aid Measures

Inhalation: Move to fresh air. If breathing is difficult or symptoms persist, seek medical attention immediately.

Eye Contact: Immediately flush eyes with large quantities of water for at least 15 minutes or until irritation subsides. Holding the eyelids apart, thoroughly irrigate the entire surface of the eyes and lids. Do not apply any medicating agents except on the advice of a physician. Obtain medical attention if irritation persists.

Skin Contact: Flush exposed areas with water. Wash with soap. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical attention.

Ingestion: Do **not** induce vomiting or administer emetics. Give 2-3 glasses of water. Do not give anything by mouth to an unconscious person. Immediately contact a poison control center for additional direction or seek qualified medical attention. Keep at rest.

Section 5 - Fire-Fighting Measures

Flash Point: 104°F

Flash Point Method: Closed Cup

Burning Rate: ND

Auto-ignition Temperature: 490°F (Estimated)

LEL: 2.1 %

UEL: 13.3 %

Flammability Classification: Combustible Liquid – Class II

Extinguishing Media: Use water fog, foam, dry-chemical, CO₂. Do not use direct stream of water into product. Liquid will continue to burn and may spread fire.

Unusual Fire or Explosion Hazards: Vapors from combustible liquids are heavier than air and can travel to a source of ignition and flashback. Keep product stored at temperatures below the flashpoint. Heated material can create an explosive mixture in air.

Hazardous Combustion Products: None specified.

Fire-Fighting Instructions: Closed containers should be cooled in a fire situation. Avoid spraying water directly into storage container.

Fire-Fighting Equipment: Wear full protective clothing and positive-pressure, self-contained breathing apparatus if this product is involved in a fire.



Section 6 - Accidental Release Measures

Spill /Leak Procedures: This material is combustible. IF spilled, control all ignition sources. Vapors from product can travel along the ground a considerable distance to ignition sources and flashback. Use protective equipment when cleaning up spills. Prevent product from entering storm drains, waterways and soil. Ventilate the spill area. Soak up with absorbent material. Avoid any source of spark, including static or metal tools. Place contaminated material in disposal container. Flush area with water. Large spills should be cleaned up by trained and properly protected individuals. Follow all regulatory requirements for proper disposal and clean-up.

Section 7 - Handling and Storage

Handling Precautions: As with all chemical products, do not eat, drink or smoke while using this product. As a precaution remove food products prior to use to avoid direct overspray contamination. Avoid contact with eyes, skin and clothing. Wash hands after use with soap and water. Keep all chemicals out of the reach of children and animals. Floor surface will become slippery while wet. Applicators should wear slip-resistant footwear. Secure area being cleaned to prevent slips. Control ignition sources.

Empty Containers: Do not pressurized, cut, weld, braze, solder, drill, grind, or expose containers to heat, sparks or flame. Empty containers will contain residue which may ignite when heated. Do NOT re-use containers without proper commercial cleaning or reconditioning. Electrostatic accumulation hazard exists.

Storage Requirements: Store in a cool, dry area in an upright position. Secure all chemicals from pet and child access. Avoid freezing or high-heat conditions. Do not store this product in a vehicle where it may be exposed to direct sunlight or high heat conditions.

Section 8 - Exposure Controls / Personal Protection

NOTE: HMIS PPE codes shown on the label in section 3 are maximum expected protection. More or less protection may be appropriate depending on the conditions of use. Each user must determine the appropriate code based on their use as recommended by the producer of the HMIS label.

Engineering Controls: Assure good general ventilation. If used in an enclosed area, mechanical ventilation may be needed. Mechanical ventilation, when used, must be approved for hazardous locations.

Gloves: Chemical gloves are required. The recommended glove is Silver Shield® 4H®. Other glove materials may not protect as well, but should be used if the specified glove is unavailable. Other glove materials include butyl or nitrile. Wash gloves with soap and water prior to removing to prevent chemical exposure and to prevent glove damage. Replace gloves at first signs of damage.

Protective Clothing: Use impervious clothing or apron if pro-longed or repeated skin contact is possible. Protect footwear from contact and contamination as well. Remove contaminated clothing.

Respiratory Protection: Maintain adequate ventilation with any chemical use. Respiratory protection may be needed if exposure levels are exceeded. NIOSH-approved organic vapor respirator will provide protection from vapors up to respirator's specified protection factor. Respiratory use is regulated in workplace applications by OSHA's regulation 29 CFR 1910.134.

Eye Protection: Safety glasses or goggles are needed to prevent eye contact.

Section 9 - Physical and Chemical Properties

Physical State: Liquid	Water Solubility: < 0.01% @ 77F (primary ingredient)
Appearance and Odor: Clear to Amber with solvent odor.	Other Solubilities: NA
Odor Threshold: ND	Boiling Point: 351-394°F (primary ingredient)
Vapor Pressure: 2 mmHg @ 68F	Freezing/Melting Point: 1 °F
Vapor Density (Air=1): 3.5 (approximate)	Viscosity: ND
Formula Weight: ND	Refractive Index: ND
Density: ND	Surface Tension: ND
Specific Gravity (H₂O=1, at 4 °C): 0.80 @ 60F	% Volatile: 90%
pH: NA	Evaporation Rate (n-butyl Acetate =1): <0.1

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Halogens, molten sulfur, strong oxidizers, water, strong acids or alkalis

Conditions to Avoid: Heat, ignition sources

Hazardous Decomposition Products: Small amounts of benzene may be formed if product is heated to above 300F. Additionally, formaldehyde and metal oxides may be formed in high heat conditions.

Section 11 - Toxicological Information

Toxicity Data:

Summary: Mineral spirits is a complex mixture of hydrocarbons and includes various chemical components. This product contains, as a component of the mineral spirits, small quantities of ethylbenzene and naphthalene. Ethylbenzene and naphthalene are listed by the IARC as a class 2B – suspected human carcinogen.

Mutagens: 2-Ethyl-1, 3-hexanediol, Ethylbenzene are listed as showing mutagenic effects in animal studies.

Teratogens: Ethylbenzene is identified as genetically active.

Section 12 - Ecological Information

Ecotoxicity: No specific ecological data are provided by the component ingredient manufacturers for this product. D-Limonene component is identified as a slight hazard for water and is 100% biodegradable within 28 days.

Section 13 - Disposal Considerations

Disposal: When this material is being disposed of, it may be classed as a hazardous waste for ignitability. (D001). Prior to disposal classify waste according to State, Local and EPA regulations for disposal (RCRA).

Disposal Regulatory Requirements: Follow applicable Federal, state, and local regulations. Used material which has been contaminated may have significantly different characteristics based on contaminant and should be evaluated accordingly.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Proper Shipping Name:

ORM-D (Consumer Commodity) for quantities < 5 Gal. for ground transport only.
Petroleum Distillates N.O.S ≥ 5 Gal. for ground transport or all air shipments.

Hazard Class: Flammable Liquid – Class 3 for quantities ≥5 Gal. and for all air shipments.

ID No.: UN1268 for quantities ≥5 Gal. and for all air shipments.

Packing Group: III for quantities ≥5 Gal. and for all air shipments.

Labels: Required for shipments containing a single 5 Gal. container or larger containers. Placard in accordance with standard > 1000 lbs.

International Transport: Same as domestic, except that ORM-D and quantity limitations are not recognized.

IMDG Page: 3375

EmS Number: 3-07

MFAG Table No: 311

Hazard Class: 3.3 – Flammable Liquid.

Section 15 - Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: See Disposal Section 13.

CERCLA Hazardous Substance (40 CFR 302.4): The following component ingredients are listed as CERCLA regulated substances with established reportable quantities (RQ). There are no EHS in this product.

Ethylbenzene	100-41-4	RQ 1000 lbs.	< 0.1%
Xylene	1330-20-7	RQ 100 lbs.	< .005%

SARA 311/312 Codes: Acute: Yes; Chronic: Yes; Fire: Yes; Pressure: No; Reactive: No.

313 Reportable ingredients: 1,2,4-Trimethylbenzene(< 3%); Ethylbenzene (< 0.1%); Xylene (< 0.4%)

CA Proposition 65 List: Warning: This product contains the following chemicals listed by the State of California as being known to cause cancer: Naphthalene, Ethylbenzene

OSHA Regulations:

Hazard Communication Standard (29 CFR 1910.1200): The mineral spirits component of this product is regulated by OSHA. See section 3 of this MSDS.

PA Right-to-Know: The following substances are listed on PA right-to-know list as environmental hazardous substances: Isopropyl alcohol (E), Naphthalene (E), Ethyl Benzene (E). There are no listed special hazardous substances.

Section 16 - Other Information

Prepared By: Steve High, Consultant

Revision Notes: NA

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NE = Not Established; NA = Not Applicable; ND = Not Determined