

SAFETY DATA SHEET

Company Name: Superior Stone Products, Inc.
Product Name: Superior Stone Impregnator
Issue Date: 12/29/10
Revision Date: 8/31/18
SDS Number: 200-50100



Section I – Product and Company Identification

Product Identifier: Superior Stone Impregnator
Product Description/Use: Stone Impregnator/Sealer
Product Code: 50100
Chemical Family: Hydrocarbon
Company:

Superior Stone Products, Inc.
8580 Byron Commerce Drive
Byron Center, MI 49546
Phone: (616) 583-0171

24 Hour Emergency Telephone Number:
CHEMTREC 800-424-9300

Section II – Hazards Identification

GHS Hazard Classification(s):

Flammable Liquid: Category 3

Skin Irritation: Category 2

Aspiration Hazard: Category 1

Chronic Aquatic Toxicity: Category 2

Specific Target Organ Systemic Toxicity - Single Exposure: Category 3, Narcotic effects

Acute Toxicity: Category 4, Inhalation

Serious Eye Damage/Irritation: Category 2B

Acute Aquatic Toxicity: Category 2



Symbols:

Signal Word(s): **Danger**

Hazard Statements:

H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H320: Causes eye irritation.

Precautionary Statements:

Prevention

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting equipment.

P242: Use only non-sparking tools.

H332: Harmful if inhaled.

H336: May cause drowsiness or dizziness.

H401: Toxic to aquatic life.

P243: Take precautionary measures against static discharge.

P261: Avoid breathing fumes/gas/mist/vapours/spray.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. **IF SWALLOWED:** Immediately call a poison center or physician. Do NOT induce vomiting. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water or shower. **IF ON SKIN:** Wash

with plenty of soap and water. Take off contaminated clothing. If skin irritation occurs: Get medical attention. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. Collect Spillage. In case of fire: Use CO₂, dry chemical, or foam for extinction.

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Storage

Store locked up. Store in a well ventilated place. Keep cool.

Disposal

Dispose of contents and container in accordance with all local, regional, national, international regulations.

Hazards not otherwise classified: None known.

Section III – Composition/Information on Ingredients

Substance/Mixture: Mixture

<u>Ingredient</u>	<u>Synonym(s)</u>	<u>% (By Weight)</u>	<u>CAS#</u>	<u>EINECS No.</u>
Aliphatic Hydrocarbon	Stoddard Solvent; Mineral Spirits, Quick-drying Mineral Spirits, Short-range Mineral Spirits; Type IVC Mineral Spirits	90-95%	64742-47-8	265-149-8
Stone Impregnator	N/A	1-10%	Proprietary	Proprietary

Section IV – First Aid Measures

If Swallowed: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

If Inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Note to Physicians: Ingestion of this product or subsequent vomiting can result in aspiration of light hydrocarbon liquid which can cause pneumonitis.

Section V - Fire Fighting Measures

Suitable Extinguishing Media: Water Spray, fog, foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media: Do not use water jet.

Special Fire Fighting Procedures: Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus and full protective clothing. Equipment should be thoroughly decontaminated after use.

Unusual Fire and Explosion Hazards: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk.

Hazardous Products of Combustion: Decomposition products may include the following material: carbon dioxides, carbon monoxide.

Other Remarks: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapor is heavier than air and may settle in low places or spread long distances to a source of ignition and flashback.

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Section VI - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Provide adequate ventilation.

For Emergency Responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See also the information for non-emergency personnel.

Methods and Materials for Containment and Cleaning Up

Small Spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Large Spill: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section VII - Handling and Storage

Precautions for Safe Handling

Protective Measures: Put on appropriate personal protection equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not breath vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined space unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible materials, kept tightly closed when not in use. Store and use away from heat, sparks open flame or any other ignition source. Use explosion-roof electrical (ventilating, lighting and material handling) equipment. Use only on-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do no reuse container.

Advice on General Occupational Health: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for Safe Storage, Including and Incompatibles: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Segregate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do no store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Refer to the product label and/or technical data sheet for further information.

Section VIII - Exposure Controls/Personal Protection

Likely Routes of Exposure: Inhalation, Dermal, Ingestion.

Control Parameters

Occupational exposure Limits:

Ingredient Name

C9-C15 Cycloalkanes

Exposure Limits

ACGIH TLV (United States)

TWA: 400 ppm - 8 hours

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Form: Methylcyclohexane

Naphthol Spirits 66/3

ACGIH TLV (United States)

TWA: 216 ppm (1200 mg/m³) - 8 hours
Notes: The TLV for the hydrocarbon solvent is based on the procedure described in Appendix H ("Reciprocal Calculations Method for Certain Refined Hydrocarbon Solvent Vapors") of the ACGIH TLVs ® and BEIs ® guidelines. The GGv mixture (ACGIH TLV) is based on Column B (McKee et al., 2005) of Table 1 ("Group Guidance Values") of Appendix H.

Mineral Spirits

OSHA PEL (United States)

TWA: 100 ppm - 8 hours

ACGIH TLV (United States)

TWA: 100 ppm- 8 hours

Engineering Controls: Use only with adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard. Engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental Exposure Controls: Emissions from ventilation of work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. .

Individual Protection Measures

Hygiene Measures: Wash Hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gasses or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Hand Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other Skin Protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section IX – Physical and Chemical Properties

Physical State: Liquid
Color: Clear
Odor: Characteristic hydrocarbon solvent odor.
Odor Threshold: No information available.
pH: Not Available
Melting Point: -72.4°F/-58°C
Boiling Point: 318-354°F/159-179°C
Flash Point: Closed Cup: 104°F/40°C
Evaporation Rate: <1 (Butyl acetate) = 1)
Lower and Upper Explosive (Flammable) Limits: Lower: 0.6%
Upper: 5.5%
Vapor Pressure: 3 mm Hg (0.4 kPa) @ 68°F/20°C
Vapor Density: 4.5 (Air = 1)
Relative Density: 0.78
Solubility: Very slightly soluble in cold water.
Partition Coefficient: n-Octanol/water : Not Available
Auto-Ignition temperature: 456.8°F/236°C
Decomposition Temperature: Not Available
Viscosity: Not Available.

Section X - Stability and Reactivity

Reactivity: Not expected to be explosive, self-reactive, self-heating, or an organic peroxide under US GHS definitions.
Chemical Stability: Material is stable
Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatibility (materials to avoid): Oxidizing agents
Hazardous Decomposition: Heating of this material to decomposition may cause the emission of toxic and irritant vapours. Forms toxic fumes of hydrogen fluoride and carbonyl fluoride. Under normal storage conditions and use, hazardous decomposition products should not be produced.

Section XI - Toxicological Information

Acute Toxicity: Acute CNS effects are reversible.
Irritation/Corrosion: Slight to moderate skin irritation. Mild respiratory tract irritation at elevated concentrations.
Sensitization: No skin sensitization evident.
Mutagenicity: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Reproductive Toxicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Specific Target Organ Toxicity (Single Exposure): C9-C15 Cycloalkanes, C9-C15 Alkanes, Category 3, Narcotic effects.
Specific Target Organ Toxicity (Repeated Exposure): Not available
Likely Routes of Exposure: Inhalation, Dermal, Ingestion.
Potential Acute Health Effects:
Eye Contact: Vapor or mist may irritate eyes.
Inhalation: May cause drowsiness or dizziness.
Skin Contact: Causes skin irritation.
Ingestion: Maybe fatal if swallowed and enters airways.
Aspiration Hazard: Category 1
Symptoms Related to the Physical, Chemical and Toxicological Characteristics:

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Eye Contact: Adverse symptoms may include the following - Pain or Irritation. Watering. Redness.
Inhalation: Adverse symptoms may include the following - Nausea, vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness.
Skin Contact: Adverse symptoms may include the following - Irritation. Redness.
Ingestion: Nausea or vomiting.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposures:

Conclusion/Summary: The most common effects observed in repeated dose animal studies with mineral spirits are kidney changes that are consistent with an alpha 2u-globulin-mediated process that is not regarded as relevant to humans. The kidney damage occurred only in male rats and appeared to involve both the tubules and glomeruli. Certain studies have reported effects in the liver as well as hematological or urine chemistry changes. In general, these effects have not been shown to be dose-related.

Based on animal studies, the potential for persistent effects is not clear. In certain repeated dose animal studies changes were reported in behavior, neurochemistry and sensory evoked potentials which may be irreversible. Repeated exposure to elevated concentrations of hydrocarbon solvents can produce a variety of transient CNS effects (e.g., dizziness, headache, narcosis, etc).

Section XII - Ecological Information

Toxicity: No information available

Persistence and Degradability: Not Available

Bioaccumulative Potential: Not Available

Mobility in Soil:

Soil/water Partition Coefficient (Koc): Not available

Other Adverse Effects: No known significant effects or critical hazards.

Section XIII - Disposal Considerations

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use-specific information.

Disposal Methods: The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid disposal. Attempt to use product completely in accordance with intended use. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special Precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, water ways, drains and sewers.

Section XIV - Transportation Information

DOT (DEPARTMENT OF TRANSPORTATION)

Technical Name: Petroleum Distillates, n.o.s.

Hazard Class: 3

NA/UN Number: 1268

Packing Group: III

Marine Pollutant: No

Please refer to DOT regulations for more info

Canada (TDG)

Technical Name: Petroleum Distillates, n.o.s.

Hazard Class: 3

NA/UN Number: 1268

Packing Group: III

Please refer to TDG Regulations for more info

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International Air Transport Association (IATA)

Technical Name: Petroleum Distillates, n.o.s.
Hazard Class: 3
NA/UN Number: 1268
Packing Group: III
ERG Code: 3L
Environmental Hazard: No

Please refer to IATA regulations for more info.

International Maritime Organization (IMO)

Technical Name: Petroleum Distillates, n.o.s.
Hazard Class: 3
NA/UN Number: 1268
Packing Group: III
EmS: F-E, S-E
Environmental Hazard: Yes

Please refer to IMO regulations for more info.

Special Precautions for User: Transport within users premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the products know what to do in the event of an accident or spillage.

Section XV - Regulatory Information

United States Federal Regulations:

Sara Title III - Section 311/312

Criteria	Yes/No
Immediate (Acute) Health Effects:	Yes
Chronic (Delayed) Health Effects:	Yes
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity:	No

State Regulations:

Massachusetts: The following components are listed: Styrene Monomer

New York: The following components are listed: Styrene

New Jersey: The following components are listed: Styrene Monomer

California Prop. 65: Warning: This product is not known to contain a chemical known to the State of California to cause cancer or other reproductive harm.

Canada:

Canadian WHMIS Classification: B3, D2B

Ingredient Disclosure List: All components are listed or exempted.

Section XVI - Other Information

Hazardous Material Information System (United States):

Health	1
Flammability	2
Physical Hazards	0

Caution: HMIS® rating are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating are not required on SDSs under 29 CFR 19101200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J.J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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National Fire Protection Association (United States):

Health:	1
Fire Hazard:	2
Reactivity Hazard:	0
Special:	-

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