

SECTION 1. PRODUCT AND COMPANY INFORMATION

Product Name: Vivid for Stone
Product Use : Solvent Free Enhancer and Sealer for Natural Stone
Manufacturer: VanHearron Inc. 410 S. Coker, Greenwood, AR 72936
Product Information : 479-255-6101
Transport Emergency : CHEMTREC: 1-800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

2.1 Product Hazard Category: Serious eye damage / eye irritation, Category 1

2.2 Label Content:

Signal Word: Danger



Hazardous Warnings: Causes serious eye damage.

2.3 H-Code Hazard Statement

H318: Causes serious eye damage.

P-Code :Precautionary Statements

P103: Read label before use.

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

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER/doctor.

P404: Store in a closed container.

P501: Dispose of contents/container to waste disposal.

2.4 Other Hazards

Inhalation of aerosol spray may damage health.

Product hydrolyses under formation of methanol (CAS no. 67-56-1). Methanol is toxic by inhalation, in contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization (preparation): Polysiloxane with functional groups + auxiliary.

3.2 Information on ingredients:

Type	CAS No.	Substance	Content	[wt. %]	Note
INHA	67923-07-3	Alkoxy-terminated aminoalkyl-functional siloxane		<=50.0 Upper	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. ***** Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product.

SECTION 4. FIRST-AID MEASURES

4.1 Skin Contact: Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use.

4.2 Eye Contact: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 minutes.

4.3 Inhalation: Move to fresh air. Oxygen or artificial respiration if needed.

4.4 Ingestion: Call a physician or poison control center immediately. If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.5 Swallowing: For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Danger of aspiration.

4.6 Advice for the physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Flammable Properties:

Property:	Value:	Method:
Flash Point	>90 C (>201 F)	(ASTM, D3278, DIN 55680, ISO 3679)
Lower Explosion Limit (LEL)	Not determined	
Upper Explosion Limit (UEL)	Not determined	
Ignition temperature	Not determined	
NFPA Hazard Class (comb./flam liquid)	IIIB	

5.2 Fire and explosion hazards: Caution! Ignitable vapors may be released during processing or curing. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Explosion limits for hydrolysis product: 3.5-15% v/v (ethanol) 5.5-44% v/v (methanol) Keep away from heat, sparks and flame. Consider possible formation of explosive mixtures with air, for example in uncleaned containers.

5.3 Recommended extinguishing media: AFFF alcohol compatible foam. Carbon dioxide. Dry chemical. Water may be used to cool tanks and structures adjacent to the fire.

5.4 Unsuitable extinguishing media: Water

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases : Hazardous combustion products: Various hydrocarbon fragments , carbon dioxide , formaldehyde , carbon monoxide , silicon dioxide , nitrogen oxides .

5.6 Fire Fighting procedures: Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Precautions: Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Avoid inhaling mists and vapours. If material is released indicate risk of slipping.

6.2 Containment: Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up: Do not flush away with water. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Exhaust vapours.

6.4 Further Information: Eliminate all sources of ignition.

SECTION 7. HANDLING AND STORAGE

7.1 Handling: Precautions for safe handling: Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10. Spilled substance increases risk of slipping.

Precautions against fire and explosion: Product can separate ethanol and methanol. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Storage: Conditions for storage rooms and vessels: none known

Advice for storage of incompatible materials: Avoid contact with acids.

Further information for storage:

Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place.

Maximum temperature allowed during storage and transportation: 32 °C (89 °F)

Temperature limit to maintain product quality.

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Engineering controls: General ventilation sufficient to provide 1 CFM per square foot of floor area or 6 room air exchanges per hour is recommended.

Local exhaust: If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and sprays, such as a paint spray booth, is recommended.

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	Mg/m ³	Ppm	Dust Fract.
67-56-1	Methanol	OSHA PEL	26.0	2200.0	
64-17-5	Ethanol	OSHA PEL	1900.0	1000.0	
67-56-1	Methanol	ACGIH TWA		200.0	

Re Methanol (CAS-no. 67-56-1): STEL is 250 ppm, skin notation (ACGIH); STEL is 250 ppm, skin notation (NIOSH).

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH).

none known

8.3 Personal protection equipment (PPE)

Respiratory protection:

If spraying or other operations which generate an aerosol mist are conducted, respiratory protection for exposed personnel is recommended. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

Hand protection:

butyl rubber protective gloves

Eye protection:

Safety glasses with side shields or chemical safety goggles. Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing could occur.

Other protective clothing or equipment:

Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

8.4 General hygiene and protection measures: Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Physical state : liquid

Color : colourless to , yellowish

Odor : characteristics

9.2 Safety parameters:

Property:	Value:	Method:
Melting Point/melting range	Not applicable	
Flash point	.94C (.201F)	ASTM D3278,DIN 55680, ISO 3679
Ignition temperature	Not determined	
Lower explosion limit (LEL)	Not determined	
Upper explosion limit (UEL)	Not determined	
Vapour pressure	Not applicable	
Density	1.03 g/cm ³ at 25C (77F)	
Water solubility/ miscibility	Insoluble	
pH-Value	Not applicable	
Viscosity (dynamic)	, 100mPa.s at 25C (77F)	

9.3 Further information:

Corrosive to Steel or aluminum	Not Corrosive to Steel or Aluminum	
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SECTION 10. STABILITY AND REACTIVITY

10.1 General Information: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

10.2 Conditions to avoid: moisture

10.3 Material to avoid: Reacts with: water. Reaction causes the formation of ethanol , methanol

10.4 Hazardous decomposition products: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.5 Further Information: Hazardous polymerization cannot occur

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 General information: Data derived for the product as a whole are of higher priority than data for single ingredients.

11.2 Acute toxicity

Assessment: Inhalable aerosols containing aminofunctional polysiloxanes may cause harmful effects in the lung in animal experiments. Due to the large number of influencing parameters (e.g. amine function, degree of substitution, viscosity, composition) an estimation of the toxicological effect on the lung is not possible for untested products of this category. In such cases exposure to inhalable aerosols must be prevented by adequate technical measures. For this endpoint no toxicological test data is available for the whole product.

Acute toxicity estimate (ATE):

ATEmix (oral): > 2000 mg/kg

11.3 Skin corrosion/irritation:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.4 Serious eye damage/ eye irritation:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.5 Respiratory or skin sensitization:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.6 Germ cell mutagenicity:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.7 Carcinogenicity:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.8 Reproductive toxicity:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.9 Specific target organ toxicity (repeated exposure):

Assessment: For this endpoint no toxicological test data is available for the whole product

11.10 Specific target organ toxicity (repeated exposure)

Assessment: For this endpoint no toxicological test data is available for the whole product

11.11 Aspiration hazard:

Assessment: For this endpoint no toxicological test data is available for the whole product

11.12 Further toxicological information:

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Data related to ingredients:

Product of hydrolysis (Ethanol):

According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degreases the skin, is narcotic and may cause liver damage

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Assessment: According to current knowledge adverse effects on water purification plants are not expected.

12.2 Persistence and degradability

Assessment: Silicone content: biologically not degradable. Elimination by adsorption to activated sludge.

Data related to ingredients:

Product of hydrolysis (Ethanol):

The hydrolysis product (Ethanol) is readily biologically degradable.

12.3 Bioaccumulative potential

Assessment: Bioaccumulation is not expected to occur.

12.4 Mobility in soil

Assessment: Insoluble in water.

12.5 Other adverse effects

none known

SECTION 13. DISPOSAL CONSIDERATION

13.1 Product disposal: Recommendation: Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.2 Packaging disposal: Recommendation: Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. Uncleaned packaging should be treated with the same precautions as the material. After emptying contaminated containers may be cleansed and recycled.

SECTION 14. TRANSPORT INFORMATION

14.1 US DOT & CANADA TDG SURFACE

Valuation : Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation : Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation : Not regulated for transport Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

15.1 U.S. Federal regulations**TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Immediate (acute) health hazard.

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above the minimum levels.

HAPS (Hazardous Air Pollutants):

This material does not contain any hazardous air pollutants.

SARA 313 Regulated : This material does not contain any chemical components with known CAS numbers that Chemical(s) exceed the threshold (De Minimis) reporting levels established

15.2 U.S. State regulations

California Proposition 65 Carcinogens:

This material does not contain any chemicals known to the state of California to cause cancer.

California Proposition 65 Reproductive Toxins:

This material does not contain any chemicals known to the State of California to cause reproductive effects.

Massachusetts Substance List:

This material contains no listed components.

New Jersey Right-to-Know Hazardous Substance List:

This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:

This material contains no listed components.

15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Hazard Classes:

D2B

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

15.4 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

- South Korea (Republic of Korea) : **ECL** (Existing Chemicals List):
This product is listed in, or complies with, the substance inventory.
- Australia : **AICS** (Australian Inventory of Chemical Substances):
This product is listed in, or complies with, the substance inventory.
- People's Republic of China : **IECSC** (Inventory of Existing Chemical Substances in China):
This product is listed in, or complies with, the substance inventory.
- Canada : **DSL** (Domestic Substance List):
This product is listed in, or complies with, the substance inventory.
- United States of America (USA) : **TSCA** (Toxic Substance Control Act Chemical Substance Inventory):
This product is listed in, or complies with, the substance inventory.
- European Economic Area (EEA) : **REACH** (Regulation (EC) No 1907/2006):

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

SECTION 16. OTHER INFORMATION

16.1 Additional Information: This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16.2 Glossary of terms:

- ACGIH - American Conference of Governmental Industrial Hygienists
- hPa - Hectopascals
- OSHA - Occupational Safety and Health Administration
- ppm - Parts per Million
- STEL - Short Term Exposure Limit
- TWA - Time Weighted Average
- DOT - Department of Transportation
- mPa*s - Milli Pascal-Seconds
- PEL - Permissible Exposure Limit
- SARA - Superfund Amendments and Reauthorization Act
- TSCA - Toxic Substances Control Act
- WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods Common name

- ASTM D56.....Tagliabue (Tag) closed cup
- ASTM D92, DIN 51376, ISO 2592Cleveland open cup
- ASTM D93, DIN 51758, ISO 2719Pensky-Martens closed cup
- ASTM D3278, DIN 55680, ISO 3679Setaflash or Rapid closed cup
- DIN 51755Abel-Pensky closed cup

16.3 Conversion table:

Pressure: : 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa