

# SAFETY DATA SHEET

## SECTION 1 – COMPANY AND PRODUCT IDENTIFICATION

**Product name** : High Definition Sealer

**Product code** : 96X-235

**Recommended use** : FOR INDUSTRIAL USE ONLY.

**Manufacturer** : Hanover® Architectural Products  
5000 Hanover Road  
Hanover, PA 17331  
Phone: (717) 637-0500  
Toll free: 1-800-426-4242  
Fax: (717) 637-7145  
Internet: [www.hanoverpavers.com](http://www.hanoverpavers.com)

**Emergency phone** : INFOTRAC 800-535-5035  
(Outside the US, call collect 352-323-3500)

## SECTION 2 – HAZARDS IDENTIFICATION

### GHS Ratings

Flammable liquid : 2 Flash point < 23°C and initial boiling point > 35°C (95°F)

Skin sensitizer : 1 Skin sensitizer

Reproductive toxin : 2 Human or animal evidence possibly with other information

Organ toxin repeated exposure : 2 Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases

### GHS Hazards

H225 : Highly flammable liquid and vapour

H317 : May cause an allergic skin reaction

H361 : Suspected of damaging fertility or the unborn child

H373 : May cause damage to organs through prolonged or repeated exposure

**SECTION 2 – HAZARDS IDENTIFICATION**

**GHS Precautions**

- P201 : Obtain special instructions before use
- P202 : Do not handle until all safety precautions have been read and understood
- P210 : Keep away from heat/sparks/open flames/hot surfaces – No smoking
- P233 : Keep container tightly closed
- P240 : Ground/bond container and receiving equipment
- P241 : Use explosion-proof electrical/ventilating/light/.../equipment
- P242 : Use only non-sparking tools
- P243 : Take precautionary measures against static discharge
- P260 : Do not breathe dust/fume/gas/mist/vapours/spray
- P261 : Avoid breathing dust/fume/gas/mist/vapours/spray
- P272 : Contaminated work clothing should not be allowed out of the workplace
- P280 : Wear protective gloves/protective clothing/eye protection/face protection
- P281 : Use personal protective equipment as required
- P314 : Get Medical advice/attention if you feel unwell
- P321 : Specific treatment (see ... on this label)
- P363 : Wash contaminated clothing before reuse
- P302+P352 : IF ON SKIN: Wash with soap and water
- P303+P361+P353 : IF ON SKIN (or hair)Take off immediately all contaminated clothing. Rinse skin with water/shower
- P308+P361+P353 : IF exposed or concerned: Get medical advice/attention
- P333+P313 : If skin irritation or a rash occurs: Get medical advice/attention
- P370+P378 : In case of fire: Use foam to dry powder for extinction.
- P405 : Store locked up
- P403+P235 : Store in a well-ventilated place. Keep cool.
- P501 : Dispose of contents/container according to regulations

**Signal Word** : Danger

**Hazard pictograms** :



**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS Number	Weight Concentration %
Aliphatic Petroleum Distillates	64742-89-8	48.55%
Isoalkanes	68551-16-6	10.00%
Methyl-O,O',O"-butan-2-on-trioximo-silane	22984-54-9	3.75%

**SECTION 4 – FIRST AID MEASURES**

- Inhalation** : Move person to fresh air. If breathing has stopped, administer artificial respiration. Seek medical attention!
- Eye Contact** : In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. Have a physician examine the eyes.
- Skin Contact** : In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water.
- Ingestion** : Do not induce vomiting. This may cause chemical pneumonitis and pulmonary edema. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs . Seek immediate medical attention.

**SECTION 5 – FIRE FIGHTING MEASURES**

- Flash Point** : 11 C (52 F)
- LEL** : 1.00
- Extinguishing Media** : Use carbon dioxide (CO2), foam, dry chemical, or water spray/water fog extinguishing system.
- Unusual Fire and Explosion Hazards** : Vapors may travel considerable distance by air and become ignited by ignition sources.
- Hazardous Combustion Products** : Oxides of carbon
- Fire Fighting Instructions** : Full protective equipment including self contained breathing apparatus should be used.
- Fire Equipment** : Water spray may not be effective, use fog nozzles

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

- Spill and Leak Procedure** : Eliminate all ignition sources. Ventilate the area. Use appropriate respirator and protective clothing.
- Small Spills** : Contain spill areas with dikes. Recover spilled material into containers. Absorb remainder with absorbent material.
- Large Spills** : If small spill measures do not contain the spill, notify local authorities and/or the fire department.

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## SECTION 7 – HANDLING AND STORAGE

**Handling** : Avoid prolonged breathing or contact with product. Keep containers closed when not in use. Do not cut, drill, grind, or weld near containers even when empty. Use non-sparking tools when working around this material.

**Storage Requirements** : Keep containers closed when not in use. Keep away from excessive heat, open flames, or sparks.

**Regulatory Requirements** : Consult national, state and local environmental laws.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Aliphatic Petroleum Distillates 64742-89-8	300 ppm; 1350 mg/m <sup>3</sup>	300 ppm	Not Established
Isoalkanes 68551-16-6	Not Established	Not Established	Not Established
Methyl-O,O',O"-butan-2-on-trioximo-silane 22984-54-9	Not Established	Not Established	Not Established

**Ventilation** : Exhaust as required to keep exposure below Threshold Limit Values

**Protective Gear** : If ventilation equipment cannot control exposures below the TLV's, wear a properly fitted organic/particulate NIOSH/MSHA approved respirator. Wear rubber or neoprene protective gloves for repeated or prolonged skin contact. Wear safety glasses or face shield for eye protection.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Liquid	<b>Odor:</b> Paint
<b>Vapor Pressure:</b> 1.7 mm	<b>Vapor Density:</b> 4.1
<b>Density:</b> 0.83	<b>Formula Lb / Gal:</b> 6.91
<b>Solvent based product freezing point:</b> N/A	<b>Water based product freezing point:</b> 32 F
<b>Boiling range:</b> 110 - 167°C	<b>Flash point:</b> 52°F, 11°C
<b>Evaporation rate:</b> Slower than ether	<b>Explosive Limits:</b> 1% - 7%
<b>Lbs VOC/Gallon Solids:</b> 14.29	<b>Lbs/Gal VOC Less H2O+Exempt:</b> 4.32
<b>g/l VOC Less Exempt Less Water:</b> 517.50	<b>Percent Weight Water:</b> 0.00
<b>% wt exempt:</b> 0.00	<b>% Organic Solvent:</b> 62.50
<b>% Weight Solids:</b> 37.50	<b>% Volume Solids:</b> 30.22
	<b>lbs/gal VOC as supplied:</b> 4.32

**SECTION 10 – STABILITY AND REACTIVITY**

**Stability** : STABLE.

**Incompatibility** : Heat or flames, strong acids or bases. Strong oxidizing agents

**Hazardous Decomposition** : Oxides of carbon and nitrogen.

Oxides of carbon

Hazardous polymerization will not occur.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Mixture Toxicity**

**Component Toxicity**

**Routes of Entry** : Inhalation, Ingestion

Exposure to this material may affect the following organs:

Blood, Central Nervous System

**Effects of Overexposure**

**Short Term Exposure**

: Ethyl benzene irritates the eyes, skin, and respiratory tract. Exposure to high concentrations can cause dizziness, lightheadedness and unconsciousness. Very high exposures (above the OEL) can cause difficult breathing, narcosis, coma, and even death. Swallowing the liquid may cause aspiration into the lungs, resulting in chemical pneumonitis. May affect the central nervous system. Concentration of 200 ppm can cause irritation. Irritates the eyes and respiratory tract. Causes central nervous system depression. High levels of exposure may cause fatigue, weakness, confusion, euphoria, dizziness, headache; dilated pupils, lacrimation (discharge of tears); nervousness, muscle fatigue, insomnia; paresthesia; cardiac dysrhythmia, unconsciousness and death may occur. Inhalation: 100 ppm exposure can cause dizziness, drowsiness and hallucinations. 100 - 200 ppm can cause depression, 200 - 500 ppm can cause headaches, nausea, loss of appetite, loss of energy, loss of coordination and coma. In addition to the above, death has resulted from exposure to 10,000 ppm for an unknown time. Skin: Can cause dryness and irritation. Absorption may cause or increase the severity of symptoms listed above. Eyes: Can cause irritation at 300 ppm. Ingestion: Can cause a burning sensation in the mouth and stomach, upper abdominal pain, cough, hoarseness, headache, nausea, loss of appetite, loss of energy, loss of coordination and coma. Inhalation: Exposure to vapor can be irritation to the nose and throat. Inhalation of vapor at concentrations above 200 ppm or 3 - 5 minutes can lead to xylene intoxication. Symptoms include headache, dizziness, nausea and vomiting. If exposure should continue, central nervous system depression characterized by shallow breathing and weak pulse can occur. Levels of 230 ppm for 15 minutes may cause lightheadedness without loss of equilibrium. Reversible liver and kidney damage in man has followed exposure to sudden high concentrations of vapor. Such high levels may also give rise to lung congestion. Exposure to extremely high concentrations (10,000 ppm or more) of xylene vapors can lead to a strong narcotic effect with symptoms of slurred speech, stupor fatigue, confusion, unconsciousness, coma, and possible death. Inhalation of Benzene may produce both nerve and blood effects. Irritation of the nose, throat and lungs may occur (3,000 ppm may be tolerated for only 30 - 60 minutes). Lung congestion may occur. Nerve effects may include an exaggerated feeling of well-being, excitement, headache, dizziness, and slurred speech. At high levels, slowed breathing and death may result. Death has occurred at 20,000 ppm for 5 - 10 minutes, or 7,500 ppm for 30 minutes. Skin contact: Irritation may occur, with redness and blistering if not promptly removed. Benzene is poorly absorbed. Whole body exposure for 30 minutes has been reported with no health effects. Eye contact may cause severe irritation. Ingestion may cause irritation of mouth, throat and stomach. Symptoms are similar to those listed under inhalation. One tablespoon may cause collapse, bronchitis, pneumonia and death. Use of alcoholic beverages enhances the harmful effect.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Effects of Overexposure**

**Long Term Exposure**

: Repeated or prolonged exposure to the skin may cause drying, scaling and blistering. May cause kidney disease, liver disease, chronic respiratory disease, skin disease, as follows: EB is not nephrotoxic. Concern is expressed because the kidney is the primary route of excretion of EB and its metabolites. EB is not hepatotoxic. Since EB is metabolized by the liver, concern is expressed for these tissues. Exacerbation of pulmonary pathology might occur following exposure to EB. Individuals with impaired pulmonary function might be at risk. EB is a defating agent and may cause dermatitis following prolonged exposure. Individuals with preexisting skin problems may be more sensitive to EB. There is limited evidence that EB may damage the developing fetus, and may cause mutations. Repeated or prolonged contact with skin may cause dermatitis; drying, cracking, itching, and skin rash. May cause liver, kidney, and brain damage; decreased learning ability, psychological disorders. Levels below 200 ppm may produce headache, tiredness and nausea. From 200 - 750 ppm symptoms may include insomnia, irritability, dizziness, some loss of memory, cause heart palpitations and loss of coordination. Blood effects and anemia have been reported but are probably due to contamination by benzene. Inhalation of xylene vapor and skin contact with liquid are the two most probable routes of long term exposure. Symptoms of inhalation are dizziness, headache and nausea. Long term exposure has been associated with liver and kidney damage, intestinal tract disturbances and central nervous system depression. Prolonged contact with skin can lead to irritation, dryness and cracking. Repeated exposure can cause poor memory, difficulty in concentration, and other brain effects. It can also cause damage to the eye surface. Benzene is a known human carcinogen. Exposure has been linked to increased risk of several forms of leukemia. The liquid defats the skin. The substance may have effects on the blood forming organs, liver and immune system. May cause loss of appetite, nausea, weight loss, fatigue, muscle weakness, headache, dizziness, nervousness and irritability. Mild anemia has been reported from exposures of 25 ppm for several years and 100 ppm for 3 months. At levels between 100 and 200 ppm for periods of 6 months, or more, severe irreversible blood changes and damage to liver and heart may occur. Temporary partial paralysis has been reported.

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA, or ACGIH.

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			None

**SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity** : Protect environment from spills and releases

**Component Ecotoxicity**

**SECTION 13 – DISPOSAL INFORMATION**

**Disposal** : As the US EPA, state, local or other regulatory agency may have jurisdiction over the disposal of your facility’s waste, it is incumbent on you, to learn and satisfy all the regulations which effect you. Dispose of in accordance to government regulations. Destroy by liquid incineration by certified environmental service group.

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## SECTION 14 – TRANSPORT INFORMATION

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Petroleum distillates, n.o.s.	UN-1268	II	3

## SECTION 15 – REGULATORY INFORMATION

Additional regulatory listings where applicable

### Hazardous Air Pollutants

- 108-88-3 Toluene 50 PPM
- 71-43-2 Benzene 100 PPM
- 100-41-4 Ethylbenzene 150 PPM
- 1330-20-7 Xylenes (o-,m-,p- isomers) 650 PPM

Chemicals meeting reporting requirements of OSHA  
- None

California Prop. 65 Components  
100-41-4 Ethylbenzene 150 PPM

SARA Section 313 Emission Reporting  
108-88-3 Toluene 50 PPM  
71-43-2 Benzene 100 PPM  
100-41-4 Ethylbenzene 150 PPM  
1330-20-7 Xylenes (o-,m-,p- isomers) 650 PPM

SARA Section 312/311 Reporting  
- None

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
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### EU Risk Phrases

### Safety Phrase

Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- 68551-16-6 Isoalkanes 10.0%
- 22984-54-9 Methyl-O,O',O"-butan-2-on-trioximo-silane 3.8%

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) . This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.



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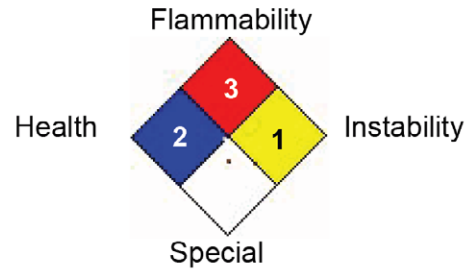
## SECTION 16 – OTHER INFORMATION

### Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="2"/>
FLAMMABILITY	<input type="text" value="3"/>
PHYSICAL HAZARD	<input type="text" value="1"/>
PERSONAL PROTECTION	<input type="text"/>

**HMIS & NFPA Hazard Rating Legend**  
\* = Chronic Health Hazard  
0 = INSIGNIFICANT  
1 = SLIGHT  
2 = MODERATE  
3 = HIGH

### National Fire Protection Association (NFPA)



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