

SAFETY DATA SHEET

Section 1 - Product and Company Identification

Product Name: Vaporseal-HM Part A **Product Code: Vaporseal HM Part A**

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Product Use: FOR INDUSTRIAL USE ONLY

Section 2 - Hazards Identification

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: \geq 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Skin sensitizer	1	Skin sensitizer

GHS Hazards

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation

GHS Precautions

P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P321	Specific treatment, see supplemental first aid information.
P362	Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P332+P313	If skin irritation occurs: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P337+P313	Get medical advice/attention
P501	Dispose of contents/container in accordance with local/regional/national/international regulations. Manufacturer/supplier or the competent authority to specify whether disposal requirements apply to contents, container or both.

Signal Word: Warning



Unnecessary exposure to any chemical should be avoided. NOTICE--Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after applicable limits. Follow respirator manufacturer's directions for respirator use.

Section 3 - Composition Information On Ingredients

Chemical Name	CAS number	Weight Concentration %
Bisphenol-A epoxy resin(number average molecular weight < 700)	25068-38-6	60.00% - 70.00%
Alkyl (C12-14) glycidyl ether	68609-97-2	10.00% - 20.00%
Phenol, polymer with formaldehyde, glycidyl ether	28064-14-4	10.00% - 20.00%

Section 4 - First Aid

After inhalation:

If inhaled, move person into fresh air. Monitor respiratory function. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. Show this sheet to doctor.
In case of unconsciousness place patient stably in position for transportation.

Eye Contact:

Eye contact may cause severe irritation, redness, tearing and blurred vision. Eye contact can cause moderate irritation, redness and tearing. Eye contact may cause temporary discomfort and burns.

After eye contact:

Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so. Consult a doctor.

Skin Contact:

Remove contaminated clothing. Wash affected skin with lukewarm water and soap for at least 20 min. Can be absorbed through the skin. Skin contact can cause reddening, irritation, dermatitis, possible sensitization. If skin irritation continues, consult a doctor.

Ingestion:

Ingestion can cause gastrointestinal irritation, nausea, vomiting, diarrhea and burns.

After Ingestion:

Drink copious amounts of water and provide fresh air. Immediately call a doctor. DO NOT induce vomiting unless instructed to do so. Material can enter lungs (aspiration hazard) during swallowing or vomiting resulting in lung inflammation or lung injury. Never give anything by mouth to an unconscious person.

Warning:

This product may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory

problems. Seek medical attention immediately if difficulty breathing persists or blue color to the skin (cyanotic) after exposure.

Section 5 - Fire Fighting Measures

Flash Point: 150 C (302 F)

LEL:

UEL:

Suitable extinguishing agents:

CO₂, sand, extinguishing powder. Do not use water for solvent based products.
Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

Do not use volume water jet.

Fire Hazards

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Vapors may be heavier than air and may travel along the ground before ignition/flashing back to vapor source. Keep welding or cutting equipment away from product.

Dispose of fire debris and contaminated firefighting material in accordance with official regulations .

Hazardous Combustion Products

Carbon oxides, nitrogen oxides, low molecular weight hydrocarbons/amines

Fire Fighting Notes

Clear fire area of unprotected personnel. Containers that are exposed to intense heat should be cooled with water. Avoid spreading burning liquid with the water used for cooling purposes . Do not enter fire area without protective gear. Fight fire from safe distance or a protected location.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Wear protective clothing.

Avoid strong oxidizing agents.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist, or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

If any equipment is necessary, ensure that it is non-sparking and electrically-protected .

Environmental precautions:

Do not allow product to reach sewage system or any water source.

In case of seepage into the ground inform responsible authorities

Prevent from spreading (e.g. by damming-in or oil barriers).

Keep contaminated washing water and dispose of appropriately

Methods and material for containment and cleaning up:

Ensure adequate ventilation

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste.
Do not flush with water or aqueous cleansing agents.
Send for recovery or disposal in suitable receptacles according to local, state and federal regulations

Section 7 - Handling and Storage

Precautions for safe handling:

Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Avoid contact with eyes.
Ensure good ventilation/exhaustion at the workplace.
Open and handle container with care.
Prevent formation of aerosols.
Avoid breathing vapors or mist.

Handling:

Apply proper ventilation, possibly combined with local exhaust. Do not eat, smoke or drink during use.
For personal protection see Section 8.
Keep away from sources of ignition.
Keep material out of reach of children.
Use only explosion proof equipment.
Wash thoroughly after handling.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges by bonding and grounding product containers before and during material transfers.
Keep respiratory protective device available.

Conditions for safe storage, including any incompatibilities:

Storage:

Keep away from sources of ignition - no smoking. Store in a cool, well ventilated place. Keep in original, closed packaging. Comply with governmental regulations.
Keep container tightly closed
Do not store in direct sunlight

Specific end use(s):

FOR INDUSTRIAL USE ONLY!

Section 8 - Exposure and Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Bisphenol-A epoxy resin (number average molecular weight < 700) 25068-38-6	Not Established	Not Established	Not Established
Alkyl (C12-14) glycidyl ether 68609-97-2	Not Established	Not Established	Not Established
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	Not Established	Not Established	Not Established

General Hygiene Considerations:

Avoid contact with eyes, skin and clothing. Do not breathe vapors/dust. Do not eat drink or smoke when using this product. Clean all contaminated equipment after use and isolate contaminated clothing.

Ventilation:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

Respiratory Protection:

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) airline type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

Protective Gloves:

Protective gloves are required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact. (Consult your safety equipment supplier.)

Eye Protection:

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. (Consult your safety equipment supplier.) Eyewash stations and safety showers should be readily available in use and handling areas. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.

Body Protection:

Chemically resistance gloves, apron and safety goggles are recommended. Type of protective equipment should be selected based on concentration amount and conditions of use of this material.

Contaminated Gear:

Dispose of in accordance with official regulations.

Section 9 - Physical and Chemical Properties

<p>Appearance Liquid</p> <p>Vapor Pressure: N/A</p> <p>Vapor Density: N/A</p> <p>Freezing point: N/A</p> <p>Boiling range: N/A</p> <p>Evaporation rate: N/A</p> <p>Explosive Limits: N/A</p> <p>Autoignition temperature: N/A</p> <p>VISCOSITY:BROOK 800 cP</p>	<p>Odor: Low</p> <p>Odor threshold: N/A</p> <p>WPG 9.67</p> <p>Solubility: Not Tested</p> <p>Flash point: Non Flammable</p> <p>Flammability: Non Flammable</p> <p>Partition coefficient (n-octanol/water): N/A</p> <p>Decomposition temperature: N/A</p> <p>Grams VOC less water: Zero</p>
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Section 10 - Stability and Reactivity
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Product Stability:

Stable under recommended storage and handling procedures.

UNSTABLE

Incompatibilities:

Avoid contact with strong oxidizing agents.

This product reacts with water.

Hazardous Decomposition:

Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, etc. Thermal decomposition may form toxic materials; carbon dioxide, carbon monoxide, various hydrocarbons, etc.

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity**Component Toxicity****Ingestion****Effects of Overexposure**

CAS Number

Description

% Weight

Carcinogen Rating

Section 12 - Ecological Information

Environmental Impact Statement/Toxicity:

Aquatic toxicity: No further relevant information available

Persistence and degradability: No further relevant information available

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Other adverse effect: No further relevant information available

Component Ecotoxicity

Section 13 - Disposal Considerations

Waste treatment methods:**Recommendation:**

Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Disposal of this product and any by-products must at all times comply with local, state and Federal regulations for hazardous wastes. All entities that store, transport or handle hazardous waste must take the necessary measures to prevent risks of pollution, release into the environment or damage to people and animals.

Contaminated Packaging:

Waste packaging should be recycled. Care should be taken when handling emptied containers that have not been cleaned. Empty containers retain some product residues. Vapor from that residue may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers.

Section 14 - Transportation Information

<u>Agency</u> Not	<u>Proper Shipping Name</u> Regulated	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
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Section 15 - Regulatory Information

Regulatory Information:

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

Safety Phrase

U.S. - TSCA:
- None
U.S. - SARA:

Section 16 - Regulatory Information

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Reviewer Revision

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