

Freudenberg Filtration Technologies, LP Safety Data Sheet

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Date of issue: January 22 nd 2018		Date of revision:																																									
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3. Composition / information on ingredients Substance: This material does not meet the criteria of a substance. <table style="width: 100%; border: none; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Ingredient</th> <th style="text-align: left;">CAS #</th> <th style="text-align: left;">% by weight</th> </tr> </thead> <tbody> <tr> <td>Water</td> <td>7732-18-5</td> <td>80 – 90</td> </tr> <tr> <td>Vinyl acetate-vinyl alcohol polymer</td> <td>25213-24-5</td> <td>5 – 15</td> </tr> <tr> <td>Polyethylene Glycol</td> <td>25322-68-3</td> <td>1 – 5</td> </tr> </tbody> </table> The exact percentage of this composition has been withheld as a trade secret.				Ingredient	CAS #	% by weight	Water	7732-18-5	80 – 90	Vinyl acetate-vinyl alcohol polymer	25213-24-5	5 – 15	Polyethylene Glycol	25322-68-3	1 – 5																												
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4. First-aid measures

General advice	:	No specific measure to be taken
Inhalation	:	Remove person to fresh air. If you feel unwell, get medical attention.
Skin contact	:	Wash with soap and water. If signs/symptoms develop, get medical attention.
Eye contact	:	Rinse with water. If signs/symptoms develop, get medical attention.
Ingestion	:	Rinse mouth. If you feel unwell, get medical attention.
Information for the doctor	:	Not applicable.

5. Fire fighting measures

Suitable extinguishing media	:	Use a fire-fighting agent suitable for ordinary combustible material such as water or foam to extinguish.
Special hazards	:	Closed containers exposed to heat from fire may build pressure and explode. Dried film of coating will burn when free from the substrate.
Hazardous decomposition or by-products during combustion	:	Carbon monoxide, carbon dioxide
Protective equipment for fire fighters	:	Use self-contained breathing apparatus
Further information	:	Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosion/rupture.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	:	Ventilate the area with fresh air. For a large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.
Environmental precautions	:	Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.
Methods and material for containment and cleaning up	:	Contain spill. Work from around the edges of the spill inward and cover with commercially available inorganic absorbent material. Mix in sufficient absorbent material until it appears dry. Shovel as much of the material as possible into a suitable container. Seal the container and dispose of as soon as possible. Clean up residue with detergent and water.

7. Handling and storage

Handling	:	For industrial use only. Avoid contact with skin and eyes. Wash thoroughly after handling. Use with adequate ventilation and avoid breathing vapors or mists of this product. Wash contaminated clothing before reuse.
Storage	:	Keep containers closed and in a cool, well-ventilated area. Protect from sunlight. Store away from heat. Store away from acids and oxidizers. Material is freeze-thaw stable but best practice for any water-borne coating is to protect from freezing whenever possible.

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8. Expose controls and personal protection

Occupational exposure limits

Vinyl acetate-vinyl alcohol (25213-24-5) : CMRG: TWA (respirable dust): 5mg/m³; TWA (total dust): 10mg/m³

Polyethylene Glycol (25322-68-3) : AIHA WEEL: TWA Particulate: 10mg/m³;

CMRG = Chemical Manufacturer's Recommended Guidelines
AIHA = American Industrial Hygiene Association
WEEL = Workplace Environmental Exposure Level
TWA = Time-Weighted Average based on 8hr/day and 40hr/week

Engineering controls

: Provide adequate ventilation as needed to control concentrations of airborne contaminants below applicable exposure limits. If ventilation is not adequate, use respiratory protection equipment.

Personal protective equipment

Respiratory protection

: An exposure assessment may be needed to decide if a respirator is required. If needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, use either a half-facepiece or full-facepiece air-purifying respirator suitable for particulates. Consult respirator manufacturer for suitability for a specific application.

Eye protection

: Safety glasses with eye shields are recommended.

Skin/hand protection

: Wear protective gloves with cuffs. Normal work clothing (long sleeves and pants) is recommended.

General safety and hygiene measures

Measures

: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental exposure

: Follow best practices for site management and disposal of waste. Avoid release to the environment.

9. Physical and chemical properties

Physical form	: Liquid
Color	: Light amber
Odor	: Mild
Boiling point/Boiling range	: 212°F / 100°C
Freezing temperature	: 32°F / 0°C
Flash point	: > 200°F [Test method: Closed Cup]
Explosion hazard	: Not applicable
Density	: 1.03 g/ml
Specific gravity	: 1.03 g/ml [Water=1]
Weight per gallon	: ~ 8.6 lbs per gallon
pH	: 5 – 8
Viscosity	: 300 – 600 cps [Brookfield]
Percent volatile	: 86%
VOC	: 0.49% weight; 5 g/l [calculated]
VOC (less H ₂ O & exempts)	: 42 g/l [calculated]
Solubility in water	: complete
Solubility (non-water)	: No data available
Vapor pressure	: No data available

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10. Stability and reactivity			
Reactivity	:	No dangerous reaction known under conditions of normal use.	
Chemical stability	:	Stable	
Possibility of hazardous reactions	:	Hazardous polymerization will not occur	
Conditions to avoid	:	None identified	
Incompatible materials	:	Reactive metals, strong acids, strong oxidizing agents	
Hazardous decomposition products	:	None known. Refer to section 5 for hazardous decomposition products during combustion.	
11. Toxicological information			
Signs and symptoms	:	Based on component information, this material may produce the following health effects:	
Inhalation	:	Respiratory tract irritation: signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.	
Skin contact	:	Contact with skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): signs/symptoms may include redness, swelling, blistering, itching.	
Eye contact	:	Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.	
Ingestion	:	Gastro-intestinal irritation: signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.	
Polyethylene Glycol	:	Dermal	Rabbit LD50 > 20,000mg/kg
Acute toxicity	:	Ingestion	Rat LD50 > 10,000mg/kg
Vinyl acetate-vinyl alcohol	:	Ingestion	Rat LD50 > 5,000mg/kg
Acute toxicity	:	Rabbit	Slight irritation
Skin corrosion/irritation	:	Rabbit	Slight irritation
Serious eye damage/irritation	:	Guinea Pig	Not sensitizing
Skin sensitization	:		
Photosensitization	:	Either no data are currently available or the data are not sufficient for classification.	
Respiratory sensitization	:	Either no data are currently available or the data are not sufficient for classification.	
Germ cell mutagenicity	:	Either no data are currently available or the data are not sufficient for classification.	
Carcinogenicity	:	Either no data are currently available or the data are not sufficient for classification.	
Reproductive toxicity	:	Either no data are currently available or the data are not sufficient for classification.	
12. Ecological information			
Biodegradability	:	Vinyl acetate-vinyl alcohol polymer has been reported to be substantially biodegraded in several test systems after a lag time for microbial acclimation. Almost 100% degradation of 30-day BOD with an acclimated culture can be reached. Polyethylene glycol is expected to be readily biodegradable.	
Ecotoxicity-components	:	Fish (Pimephales promelas)	96 hr LC50: > 87,209 mg/l
Polyethylene Glycol	:	Water flea	48 hr LC50: > 53,484 mg/l
Vinyl acetate-vinyl alcohol	:	Fish (Pimephales promelas)	96 hr LC50: > 40,000 ppm
	:	Fish (Lepomis macrochirus)	96 hr LC50: > 10,000 mg/l

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13. Disposal considerations

Product : Avoid disposal. Completely utilize product, if possible. Dispose unused product and container in accordance with local, regional, national, and international regulations. Incinerate unused product in a permitted waste incineration facility. As a disposal alternative, dispose of waste product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA) : Not regulated

14. Transport information

Not classified as dangerous in the terms of transport regulations.

Transportation during cold weather: This product is freeze-thaw stable and will function properly if it is frozen and then thawed. However, whenever possible, minimize the number of freeze cycles to which the product is exposed during transportation.

15. Regulatory information

Chemical inventory (U.S.) : All components of this product are included on the TSCA Chemical Inventory or are not required to be listed on the TSCA Chemical Inventory.

Chemical inventory (Canada) : All components of this product are included on the Domestic Substances List (DSL) or are not required to be listed on the DSL.

Component analysis : None of the product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

16. Other information

DISCLAIMER: For industrial use only. Reasonable care has been taken in the preparation of this information and is believed to be accurate as of the date issued. Seller does not suggest or guarantee that any hazards listed herein are the only ones which exist and makes no warranty of any kind, express or implied, concerning the safe use of this material in user's process or in combination with other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials.

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The information contained herein is based on the present state of knowledge and does not therefore guarantee certain properties. The technical safety information sheet only describes the products in aspect to their safety requirements. Recipients of our products must take on responsibility for observing existing laws and regulations.