



MATERIAL SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

DESCRIPTION: Cascoset FM-7400

1. Chemical Product and Company Identification

DESCRIPTION: **Cascoset FM-7400**
PRODUCT CODE: 334556
PRODUCT TYPE: Slurry
APPLICATION: PRF FM-Free Slurry Hardener

Part of the CASCO® Brand of Adhesives and Resins from Hexion

Manufacturer/Supplier Information

MSDS prepared by:
Hexion Specialty Chemicals, Inc.
155 West A Street, Bldg. A-1
Springfield, OR
97477

For Emergency Medical Assistance
Call Health & Safety Information Services
1-866-303-6949

For additional health and safety or regulatory information, call (541)744-3256.

2. Hazards Identification

2.1 Emergency Overview

Appearance Light brown liquid
Odor Characteristic

CAUTION!

Will burn.
May cause eye irritation.

HMIS Rating

HEALTH = 1 (slight)
FLAMMABILITY = 1 (slight)
REACTIVITY = 0 (minimal)
CHRONIC = *

HMIS® ratings involve data interpretations that may vary from company to company. They are intended only for the rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

2.2 Potential Health Effects

Immediate Hazards

INGESTION:	Not expected to be harmful under normal conditions of use. If accidentally swallowed, burns or irritation to mucous membranes, esophagus or GI tract can result.
INHALATION:	Not expected to be harmful under normal conditions of use. However, if allowed to become airborne, may cause irritation of nose, throat and lungs.
SKIN:	May cause irritation on prolonged or repeated contact.
EYES:	May cause irritation on prolonged or repeated contact.

Delayed Hazards

7631-86-9 Silica

Can cause lung fibrosis. Pre-existing respiratory disorders may be aggravated by exposure.
-- See Footnote at end of section

14808-60-7 Quartz (SiO₂)

CANCER HAZARD. Can cause cancer. Use of this product may generate silica dust (which may be invisible). Inhaled silica has been listed by NTP and classified by IARC as a human carcinogen.

7747-35-5 7a-Ethyldihydro-1H,3H,5H-oxazolo[3,4-c]oxazole

May cause allergic skin reaction.
-- See Footnote at end of section

Footnote: As of the date of issuance of this document, this material has not been listed by NTP, classified by IARC nor regulated by OSHA as a carcinogen.

3. Composition, Information on Ingredients

The ingredients listed below have been associated with one or more immediate and/or delayed(*) health hazards. Risk of damage and effects depends upon duration and level of exposure. BEFORE USING, HANDLING, OR EXPOSURE TO THESE INGREDIENTS, READ AND UNDERSTAND THE MSDS.

		% by weight
7631-86-9	*Silica	1.0 - 5.0
7747-35-5	*7a-Ethyldihydro-1H,3H,5H-oxazolo[3,4-c]oxazole	10.0 - 30.0
14808-60-7	*Quartz (SiO₂)	0.1 - 1.0
34375-28-5	2-(hydroxymethylamino)ethanol	1.0 - 5.0

Any applicable Canadian trade secret numbers will be listed in Section 15.2.

4. First Aid Measures

INGESTION:	If accidentally swallowed, dilute by drinking large quantities of water. If the individual is drowsy or unconscious, do not give anything by mouth. Immediately contact poison control center or hospital emergency room for advice on whether to induce vomiting or for any other additional treatment directions.
INHALATION:	Remove to fresh air.
SKIN:	Immediately flush with plenty of water for at least 15 minutes.
EYES:	Immediately flush eyes with plenty of water. Call a physician if irritation persists.

5. Fire Fighting Measures

Suitable Extinguishing Media: In case of fire, use water spray, dry chemical, foam or CO₂.
Use water to keep fire-exposed containers cool.

Will burn.

6. Accidental Release Measures

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. For large spills, use water spray to disperse vapors and flush spill area. Prevent runoff from entering waterways or sewers. Use appropriate Personal Protective Equipment (PPE).

7. Handling and Storage

7.1 Handling

Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of the material from eyes, skin and clothing. Wash thoroughly after handling. Always use appropriate Personal Protective Equipment (PPE).

INHALATION: Avoid prolonged or repeated breathing of vapor.

SKIN: Avoid prolonged or repeated contact with skin and clothing.

EYES: Avoid prolonged or repeated contact with eyes.

7.2 Storage

Keep container closed.
Store in a cool, dry place.
Limited storage life - Refer to product specifications.

8. Exposure Controls/Personal Protection

8.1 Exposure Guidelines

7631-86-9		Silica	
ACGIH TLV	8-hr TWA	10 mg/m ³	(as amorphous silica)
OSHA PEL	8-hr TWA	80/(%SiO ₂) mg/m ³	20 mppcf; (as amorphous silica)
	Remanded TWA	6 mg/m ³	(as amorphous silica); 1989 PEL remanded, but in effect in some states
7747-35-5		7a-Ethylidihydro-1H,3H,5H-oxazolo[3,4-c]oxazole	
ACGIH TLV	None established		
OSHA PEL	None established		
14808-60-7		Quartz (SiO₂)	
ACGIH TLV	8-hr TWA	0.025 mg/m ³	respirable fraction; A2 - Suspected Human Carcinogen

OSHA PEL	8-hr TWA	10/(%SiO ₂ +2) mg/m ³	respirable dust
	8-hr TWA	30/(%SiO ₂ +2) mg/m ³	total dust
	Remanded TWA	0.1 mg/m ³	respirable dust; 1989 PEL remanded, but in effect in some states
NIOSH	8-hr TWA	0.05 mg/m ³	Respirable; Refer to NIOSH publications including Criteria Document for Crystalline Silica
34375-28-5	2-(hydroxymethylamino)ethanol		
ACGIH TLV	None established		
OSHA PEL	None established		

8.2 Exposure Controls

If airborne contaminants are generated when the material is heated or handled, sufficient ventilation in volume and air flow patterns should be provided to keep air contaminant concentration levels below acceptable criteria.

8.3 Personal Protection

Use goggles if contact is likely. Wear impervious gloves as required to prevent skin contact.

9. Physical and Chemical Properties

Appearance	Light brown liquid
Odor	Characteristic
Odor threshold	Not available
pH	8.2 - 9.6
Freezing point	Not available
Boiling point, 760 mm Hg	Not available
Flash point	Greater than 93.4 °C (200.1 °F)
Evaporation rate	Not available
Lower explosion limit	Not available
Upper explosion limit	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.177 - 1.225
Solubility in water	Not available
Octanol/water partition coefficient	Not available
Autoignition temperature	Not available
Viscosity	600 - 2,100 cPs Brookfield

10. Stability and Reactivity

Chemical Stability

Normally stable as defined in NFPA 704-12(4-3.1). Normally stable as defined in NFPA 704-12(4-3.1).

Hazardous Decomposition Products

CO, CO₂, aldehydes (including formaldehyde), particulate matter and other organic compounds.

Possibility of Hazardous Reactions

Hazardous polymerization is not expected to occur .

11. Toxicological Information

SKIN: This product was not an irritant when tested using an "in vitro" test method.

EYES: This product was a minimal to mild irritant when tested using an "in vitro" test method.

7631-86-9 Silica

LC50: Not available

LD50: Oral-rat= 3,160 mg/kg (RTECS)

7747-35-5 7a-Ethylidihydro-1H,3H,5H-oxazolo[3,4-c]oxazole

LC50: Not available

LD50: Not available

14808-60-7 Quartz (SiO₂)

LC50: Not available

LD50: Not available

34375-28-5 2-(hydroxymethylamino)ethanol

LC50: Not available

LD50: Oral-rat= 950 mg/kg (vendor); Skin-rabbit= 1,400 mg/kg (vendor)

12. Ecological Information

Not determined.

13. Disposal Considerations

Recover free liquid. Absorb residue and dispose of according to local, state/provincial, and federal requirements.

14. Transport Information

14.1 U.S. Department of Transportation (DOT)

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Regulation: Non regulated

14.2 Canadian Transportation of Dangerous Goods (TDG)

Regulation: Non regulated

14.3 Other Regulations

• **ADR/RID**

Regulation: Non regulated

- **IMO/IMDG**
Regulation: Non regulated
 - **IATA (Commercial)**
Regulation: Non regulated
 - **IATA (Passenger)**
Regulation: Non regulated
 - **ADNR**
Regulation: Non regulated
-

15. Regulatory Information (Selected Regulations)

15.1 U.S. Federal Regulations

OSHA Hazards Communication Standard 29CFR1910.1200

This material presents possible health hazards as determined when reviewed according to the requirements of the Occupational Safety and Health Administration 29 CFR Part 1910.1200 "Hazard Communication" Standard.

SARA Title III: Section 311/312

Immediate health hazard
Delayed health hazard

SARA Title III: Section 313 and 40 CFR Part 372

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

None required per SARA TITLE III SECTION 313.

TSCA Section 8(b) Inventory

All reportable chemical substances are listed on the TSCA Inventory. We rely on certifications of compliance from our suppliers for chemical substances not manufactured by us.

15.2 Canadian Regulations

Workplace Hazardous Materials Information System (WHMIS)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

Class D2A
Class D2B

Canadian Environmental Protection Act (CEPA)

All reportable chemical substances are listed on the Domestic Substances List (DSL) or otherwise comply with CEPA new substance notification requirements.

National Pollutant Release Inventory (NPRI)

This product contains the following chemical(s) subject to the reporting requirements of the Canadian Environmental Protection Act (CEPA) subsection 16(1), National Pollutant Release Inventory.

None required.

16. Other Information

User's Responsibility

The OSHA Hazard Communication Standard 29CFR 1910.1200 and the Workplace Hazardous Materials Information System (WHMIS) require that the information contained on these sheets be made available to your workers. Educate and train your workers regarding OSHA and WHMIS precautions. Instruct your workers to handle this product properly. Consult with appropriate experts to guard against hazards associated with use of this product and its ingredients.

Disclaimer

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