

MATERIAL SAFETY DATA SHEET

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<u>HMIS HAZARD RATING</u>	
Health	1
Flammability	0
Reactivity	0

I. CHEMICAL PRODUCT

REVISED: March 16, 2005

FOAM-X

II. COMPOSITION, INFORMATION OR INGREDIENTS

CHEMICAL FAMILY:

Polysiloxane oil emulsion

FORMULA:

Proprietary

HAZARDOUS COMPONENTS:

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>	<u>CAS REG. NO.</u>
No hazardous ingredients	--	--

EXPOSURE LIMITS - OSHA

<u>ACTION LEVEL</u>	<u>TWA</u>	<u>STEL</u>
None established	None established	None established

SPECIAL CAUTIONS:

⇒ Immediate eye irritant. No known adverse chronic health effects. This product may enhance allergic conditions in certain people. No known medical conditions that might be aggravated by exposure to this product.

III. HAZARD IDENTIFICATION (Health)

ROUTES OF ENTRY: Eyes.

TARGET ORGANS: Eyes.

EFFECTS OF OVEREXPOSURE:

- Eyes:** Exposure to liquid may cause irritation with redness and swelling, possible corneal injury.
- Skin:** Single, prolonged exposure (in hours) causes no known effect. Repeated or prolonged exposures may cause slight irritation.
- Inhalation:** No irritation to nose or throat expected. No injury is likely from relatively short exposure.
- Ingestion:** This product is for industrial use only and is not for human consumption. Amounts transferred to the mouth by fingers, etc., during normal operations should not cause injury.
- Delayed/Long-term Effects:** None known.

IV. FIRST AID MEASURES

- Eyes:** Immediately upon exposure, flush eyes with copious amounts of room temperature water, ensuring that under both the upper and lower lids are rinsed well for five to ten minutes. Contact physician if irritation persists. Contact lenses should not be worn when working with this product.
- Skin:** Exposed skin should be thoroughly rinsed with soap and fresh water to move the product from the exposed area as soon as possible. If irritation persists, consult a physician.
- Inhalation:** No inhalation exposure anticipated. Avoid inhaling possible mist or spray incurred from use of this product.
- Ingestion:** No data regarding effects of ingestion is available. This product is for industrial use only and is not for human consumption. If ingested, contact a physician.

V. FIRE FIGHTING MEASURES

FLASH POINT

Above 200°F

LEL (Lower)

Not applicable

UEL (Upper)

Not applicable

EXTINGUISHING MEDIA:

Water, fog or dry chemicals suitable.

SPECIAL FIRE FIGHTING PROCEDURES:

Use self-contained breathing apparatus and full protective clothing when fighting a chemical fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

This product contains methyl-polysiloxane which can generate formaldehyde at approximately 300°F (150°C) and above, in atmospheres that contain oxygen. Other decomposition products are: carbon oxides, sulfur oxides, nitrogen oxides, and crystalline silica.

VI. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Disposal of collected product, residues, and clean-up materials may be governmentally regulated. Observe all applicable local, state, and federal waste management regulations. Spilled material may be slippery; use care to avoid slips and falls. Mop-up or wipe-up, or soak-up with absorbent and contain for salvage or disposal. For large spills, provide diking or other appropriate containment to keep material from spreading. Clean any remaining slippery surfaces by appropriate techniques, such as: several moppings or swabbings with appropriate solvents; washing with mild, caustic detergents or solutions; or high pressure steam for large areas. Observe any safety precautions applicable to the cleaning material being used. Observe all personal protection equipment recommendations

(Also refer to Sections VIII, Personal Protection; Section XIII, Disposal Considerations and Section XIV, Regulatory Information.)

VII. HANDLING AND STORAGE

STORAGE TEMPERATURES:

Avoid temperatures below 32°F. Avoid storing for extended periods at temperatures in excess of 85°F.

SHELF LIFE:

One (1) year in original, sealed packaging at temperatures not above 85°F (29.4°C) or below 32°F (0°C). Do not store outside or in direct sunlight. Storage for longer periods or beyond recommended temperature range may adversely affect product shelf life.

SPECIAL SENSITIVITY:

None known.

PRECAUTIONS TO BE TAKEN IN HANDLING:

Use Personal Protection Level A, goggles. Spilled material may be slippery; use slip and fall precautions.

PROPER STORAGE PRECAUTIONS:

Store in a cool, dry place. Avoid temperatures below 32°F or in excess of 85°F. This product remains stable for three freeze-thaw cycles only.

VIII. EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION:

No local exhaust should be needed. General ventilation is recommended.

EYE PROTECTION:

Use proper protection, safety glasses or goggles as a minimum. Do not wear contact lenses when working with this product.

RESPIRATORY PROTECTION:

No respiratory protection should be needed in the course of normal handling. See "Note" below.

PROTECTIVE CLOTHING:

Use Personal Protection Level A, goggles. Avoid excessive skin contact. This material is slippery.

SPILL CLEAN-UP PROTECTIVE EQUIPMENT:

Use Personal Protection Level B, goggles and gloves. No respiratory protection should be necessary. Avoid eye and skin contact. This product is an immediate eye irritant.

NOTE:

These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING:

Greater than 212°F (100°C)

SPECIFIC GRAVITY: (H₂O = 1)

0.90 – 1.10

VAPOR PRESSURE:

Not applicable

PERCENT VOLATILE:

90% by weight as water

VAPOR DENSITY:

Not applicable

VOLATILE ORGANIC COMPOUNDS (V.O.C.)

0% maximum by weight

SOLUBILITY IN WATER:

Dispersible

EVAPORATION RATE: (Butyl acetate = 1)

Not determined

pH:

4.3 - 6.8

FREEZE-THAW STABILITY:

Stable; freezing not recommended

APPEARANCE AND ODOR:

Milky white liquid, Mild odor

MELT/FREEZE POINT:

Less than 40°F

X. STABILITY AND REACTIVITY DATA

STABLE / UNSTABLE:

Stable (Also see Section VII. Storage and Handling.)

INCOMPATIBILITY (Materials to avoid):

Oxidizing material can cause a reaction.

HAZARDOUS DECOMPOSITION PRODUCTS:

This product contains dimethyl-polysiloxane which can generate formaldehyde at approximately 300°F (150°C) and above, in atmospheres that contain oxygen. Other decomposition products are: carbon oxides, sulfur oxides, nitrogen oxides, and crystalline silica.

HAZARDOUS POLYMERIZATION [MAY/WILL NOT] OCCUR:

Not known to occur.

CONDITIONS TO AVOID:

None known.

XI. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY: (*Indicate- Skin contact, Absorption, Eye contact, Inhalation, Ingestion*)

Eye contact.

EFFECTS OF ACUTE/CHRONIC EXPOSURE TO PRODUCT:

Immediate eye irritant. Exposure to liquid may cause irritation with redness and swelling, possible corneal injury.

EXPOSURE LIMITS:

None established.

IRRITANCY OF PRODUCT:

Immediate eye irritant.

SENSITIZATION TO PRODUCT:

Not established.

TERATOGENICITY:

Information not available.

REPRODUCTIVE TOXICITY:

Information not available.

CARCINOGENICITY:

Not established.

XII. ECOLOGICAL INFORMATION

ENVIRONMENTAL CONSIDERATIONS:

Not an EPA Priority pollutant or a RCRA hazard.
(*Refer to Section XIV, Regulatory Information.*)

XIII. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

Dispose of material according to all federal, state and local Environmental Protection regulations. Incineration recommended in approved incinerator according to federal, state, and local regulations.

SPECIAL DISPOSAL CONSIDERATIONS:

None other than above.
(*Refer to Section XIV, Regulatory Information.*)

XIV. TRANSPORT INFORMATION

D.O.T. HAZARDOUS SHIPPING NAME (if applicable):
Not listed (None)

D.O.T. HAZARD CLASS: (49 CFR 172.101)
None

D.O.T. LABELS:
None required

D.O.T. FRT CLASS NON-BULK:
Not determined / Non-hazardous

D.O.T. PLACARDS:
None required

D.O.T. FRT CLASS BULK:
Not determined / Non-hazardous

WHMIS HAZARD CLASS:
Class D, Division 2B

WHMIS LABELS REQUIRED:
Other Toxic Materials (eye irritant)

WHMIS REGULATED INGREDIENT:
Dimethyl polysiloxane CAS 63148-629

REGULATED CONCENTRATION LEVEL:
Greater than 1% (by weight)

PRODUCT REGULATED COMPONENT:
Dimethyl polysiloxane CAS 63148-629

CONCENTRATION IN THIS PRODUCT:
Less than 8% (by weight)

(Also refer to Section XIV. Regulatory Information)

XIV. PART B. REGULATORY INFORMATION

FDA APPROVAL:
Title 21, Sections 176.210; 175.105; 176.170; 176.200

WHMIS CLASSIFICATION (Canada)
D-2 Other Toxic Materials (Also refer to Section XIII. Transport Information.) Eye irritant.

CERCLA - REPORTABLE QUANTITIES (CFR 40 302.4)

Regulated Component	Reportable Quantity (RQ) - final
None	--

SARA TITLE III NOTIFICATION: (CFR 40) (Community Right to Know)

<u>Sec. 311. Extremely Hazardous Substances (EHS)</u>	<u>TQ Limit</u>	<u>CAS Reg. No.</u>
None (40 CFR 335, Appendix A)	--	--

<u>Sec. 312. Hazardous Chemicals- 29 CFR 1910.119 (OSHA Status)</u>		<u>CAS Reg. No.</u>
Acute:	Yes (eye irritant)	63148-629
Chronic:	No	
Fire:	No	
Pressure:	No	
Reactive:	No	

<u>Sec. 313. Toxic Chemicals- 40 CFR 372.65 (Form R)</u>	<u>CAS Reg. No.</u>
None present or none present in regulated quantities.	--

PROPOSITION 65
Not listed.

RCRA STATUS- 40 CFR 302.4
Not regulated

TSCA STATUS
Components listed.

XV. OTHER INFORMATION

SPECIAL COMMENTS:

This product may be used in starch adhesive which also contains Sodium Hydroxide (caustic soda), which is hazardous. Refer to MSDS on Sodium Hydroxide.

PREPARED BY: Cassie J. Rothstrom, Chief Operating Officer DATE: March 16, 2004

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