

MATERIAL SAFETY DATA SHEET



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SECTION I- IDENTIFICATION

Product Name: STAR MACRO-THIX- Rheological additive- Latex based H.M.I.S.
Chemical Family: - Specialty Polymeric Thickener Additive. Health= 1
Chemical Name: - Acrylic Emulsion. Fire= 0
Prepared by: - G.C. Dubey Reactivity=0

Abbreviations: N/A = Data Not Available N/AP = Not Applicable N/H= Not Hazardous N/R= Not required.

SECTION II- INGREDIENTS

Ingredients	CAS NO.	WT%	Exposure Limits			
			OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Polymer (EA/MAA)	25212-88-8	Approx. 28	None	none	None	None
Residual Monomer	Not required	< 0.05	N/R	N/R	N/R	N/R
Water	7732-18-5	Approx. 72	None	none	None	None

Polymeric description (s) presented in this section are the U.S. Toxic Substances Control Act (TSCA) definitions.

SECTION III, PHYSICAL DATA

Boiling Point	Vapor Pressure (mm Hg)	Vapor Density (Air=1)	Appearance	Viscosity	
212 Deg. F.	Approx. 17	< 1	Milky white liquid with acrylic odor.	Max. 5000 CPS.	
Evaporation Rate (Butyl Acetate=1)	Specific Gravity	% Volatile by Weight	Freezing Point	Boiling Pt.	Density (Air=1)
<1 Water	1.0- 1.20	71-73 Water	32 °F / 0° C	100 C/212 F	<1 Water
Vapor Pressure	Miscibility w/Water	Threshold Odor (ppm)	ph	Specific Gravity	
17 mm Hg @ 20C/68 F Water	Infinite	N/A	2.1-3.5	1.0-1.1	

SECTION IV- FIRE AND EXPLOSION HAZARD DATA

Flammability Classification	Flash Point	Flammable Limits	Auto-Ignition Temperature
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N/A	(method used) Non Combustible	LEL N/AP	UEL N/AP	N/AP
Combustion Products		Extinguishing Media		
CO, CO2, Hydrocarbon compounds		Dry chemical, Co2, water fog or spray.		

Unusual Fire and Explosion Hazards: Containers may rupture due to steam pressure build up when exposed to intense heat. Product may splatter if the temperature exceeds the boiling point of water (100 C/ 212 F). Direct product can burn.

Special Fire Fighting Procedures: Water may be used to Cool exposed containers to prevent pressure build up and possible rupture. Wear self-contained breathing equipment and protective clothing. Water may be ineffective to control fires. If water is used, fog nozzles are preferred.

Explosive Power	Burning Rate	NEPA RATING
N/A	N/A	Health= 1, Fire= 0, Reactivity= 0
UN/NA/PIN #	Static Sensitive	Impact sensitive
N/A	No	No

US DOT HAZARD CLASS - NONREGULATED

SECTION V- HEALTH HAZARD DATA

Threshold Limit Value - N/A
Routes Of Entry - Skin, eyes, inhalation, ingestion.
Effects Of Overexposure - Acute: NO Chronic: NO

ACUTE

Eyes - May cause slight eye irritation.
Skin - May cause slight irritation.
Inhalation - May cause headache, irritation of nose, throat and lungs.
Ingestion - May cause nausea, cramps, vomiting, diarrhea or acute effects.

CHRONIC

No Chronic Toxicity has been established.
Medical conditions prone to aggravation by exposure: None Known.

Carcinogenic: IARC- NO NTP- NO OSHA- NO

Emergency and First Aid Procedures

Eyes- Immediately flush with plenty of water for 15 minutes, call a physician, if condition persists.
Skin- Wash thoroughly with plenty of water and soap. Remove and wash contaminated clothing. Consult a physician if irritation persists.
Inhalation- Move to fresh air, Restore breathing if required. Treat symptomatically. Consult a physician.
Ingestion- Consult a physician or Poison Control Center immediately treat symptomatically. Show M.S.D.S. or label.

SECTION VI- REACTIVITY DATA

<u>Instability</u>	<u>Conditions to Avoid</u>	<u>Incompatibility</u>	<u>Hazardous Polymerization</u>
Stable	Keep from freezing.	(Materials to Avoid) Strong oxidizing agents.	Will not occur

Hazardous Decomposition Products

May yield acrylic monomers on thermal decomposition, as in welding or fire. Fumes may also contain CO, CO₂, Hydrocarbons and other products of combustion. Thermal decomposition is also dependent on time and temperature.

Conditions to avoid - Temperatures above 177 C/ 350 F, as the polymer may start decomposing.

SECTION VII- SPILL OR LEAK PROCEDURES

Workplace Classification- OSHA Hazard Communication Standard (29 CFR 1910.1200) - Non Hazardous.

Canadian Workplace Hazardous Materials Information Classification System (WHMIS)- Not a 'controlled product'.

SARA Title III- Section 311/312 Categorizations (40 CFR 370)- No. It is not a hazardous product under 29CFR 1910.1200.

SARA Title III- Section 313 Categorizations (40 CFR 372)- No. Does not contain a chemical at or above de minimis concentrations.

CERCLA Information (40 CFR 302.4): Releases of this material to air, water or land are not reportable to the National Response Center under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Authorization Act (SARA) Title III, Section 304.

Waste Classification: The toxicity characteristic (TC) has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristic definition of ignitability, corrosivity or reactivity and it is not listed in 40 CR 261.33.

UNITED STATES: All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

California (Proposition 65): This product contains trace amounts of Ethyl Acrylate (140-88-5) known to state of California to cause cancer.

Steps to be Taken in Case Material is Released or Spilled

Limit spread of leak or spill.

Ventilate the area.

Avoid falls as the floors may become slippery when the product is spilled.

Wear approved respiratory protection. Wear suitable protective clothing, gloves and eye / face protection. Soak up with an inert absorbent material like sand or earth and pick up waste material. Put in a sealed approved container.

Keep material out of sewers, drains and bodies of water.

The product is not considered a hazardous waste under current federal RCRA requirements.

Disposal Considerations

Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Remove the clear supernatant liquid and flush to chemical sewer. Landfill or incinerate the remaining solids in accordance with local, state and federal regulations.

SECTION VIII- SAFE HANDLING AND PROTECTION INFORMATION

- Ventilation:** Use local exhaust ventilation to control mists or vapors generated when using this product. Ventilation must be adequate to keep exposure below regulated limits as noted in section II.
- Respiratory Protection:** Appropriate respiratory protection should be selected by a qualified person if exposure is expected to be excessive.
- Protective Gloves:** Neoprene Gloves, chemically resistant.
- Eye Protection:** Wear safety glasses, goggles or face shield.
- Other Protective Equipment:** Wear suitable protective clothing. Remove and wash contaminated clothing before re-use. A source of clean water shall be available for washing eyes and skin.
- Hygienic Practices:** Wash hands before eating , smoking or using washrooms. Smoke only in designated areas.

SECTION IX- TOXICOLOGICAL INFORMATION

Oral LD50- rat: > 5000 mg/kg
Dermal LD50- rabbit: > 5000 mg/kg
Skin Irritation-rabbit: Slight
Eye Irritation- rabbit: slight

SECTION X- ECOLOGICAL INFORMATION

Environmental Toxicity: Fathead minnow (*Pimephales promelas*), 96 hour LC50 Static: > 1000 mg/l
Daphnia magna, 48 hour LC50 Static: >1000 mg/l

SECTION XI- SPECIAL PRECAUTIONS

1. Keep out of reach of children.
2. For professional and industrial use only.
3. Do not handle until manufacturer's safety precautions have been read and understood.
4. Use only with adequate ventilation.
5. Do not take internally.
6. Avoid contact with eyes and skin. Liquid penetrates leather and shoes causing delayed burns.
7. Wash thoroughly after using. Practice safe hygiene principles.
8. Additional Technical Data Sheets and/or M.S.D.S.'s are available upon request.
9. Store between 50-100 °F. Keep the containers tightly closed after each use.

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