

# MATERIAL SAFETY DATA SHEET

# **ALPHA-THERM**

UN CODE No: NA D.G. CLASS: NA SUBSIDIARY RISK: NONE HAZCHEM CODE: NA POISONS: 5 MANUFR'S CODE: SHS TOXIC SUBSTANCES SCHEDULE Not Listed MARINE POLLUTANT: NA

USE

Proprietary blend of SYNTHETIC POLYMER EMULSIONS, encapsulated micro-spheres, special fillers Used as a thin film heat insulating, protective and waterproof coating for metal substrates, pipes, roof decks.

# **PHYSICAL DATA**

APPEARANCE: Viscous Liquid PERCENT VOLATILE: 32-35% W/W SPECIFIC GRAVITY: 1.00 approx FLAMMABILITY LIMITS: LFL 1.1% FLASH POINT: NA AUTO IGNITION: Not determined ODOUR: No odor BOILING POINT: > 90 °C

#### **INGREDIENTS**

CHEMICAL ENTITY	CAS NO	PROPORTION 55-65	
Synthetic Polymer Emulsion	Proprietary		
Ester Alcohol	025265-77-4	1.0 max	
Titanium Dioxide	013463-67-7	5-10	
Other Color Pigments	051274-00-1	3-5	
Inert Fillers	014807-96-6	1-2	
<b>Encapsulated micro-spheres</b>	Proprietary	Approx 10	
Calcium Carbonate	001317-65-3	Approx 15	

# **HEALTH HAZARD INFORMATION**

**HEALTH EFFECTS** 

**Swallowed** May cause nausea. If liquid enters lungs, may cause lung damage.

Eyes May cause slight temporary irritation and soreness

**Skin** May cause dryness, skin irritation, dermatitis if exposure is repeated, prolonged

**Inhaled** May cause nausea, headache, irritation of nose, throat irritation.

Chronic No known health hazard

**Toxicity** Low, from available data. Long term experience of this product type

indicates no danger to health when handled under industrial

conditions.



## **FIRST AID**

**Swallowed** If swallowed, drink water immediately. Do not induce vomiting. Seek medical attention.

**Eye** Flush with plenty of water for 15 minutes. Seek medical attention promptly.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water for 15 minutes.

DO NOT use solvents to remove product from skin. Wash clothing thoroughly before reuse.

Consult a physician if irritation persists.

**Inhaled** Remove to fresh air location. If discomfort persists, seek medical advice.

**FA Facilities** Provide eye washing facilities

# **ADVICE TO DOCTOR (EMERGENCY TREATMENT)**

Treat symptomatically. The decision whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endo-tracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care. Treatment based on the sound judgment of the attending physician and the individual reactions of the patient.

#### PRECAUTIONS FOR USE

#### EXPOSURE LIMITS WORKPLACE EXPOSURE STANDARD

Component	TWA (8 hr)	ppm	mgm/m3 TLV	ppm	mgm/m3
Butyl Acrylate		10	55		
Styrene Monomers		50	215	100	425
Ammonia		25	18	35	27

#### **ENGINEERING CONTROLS**

VENTILATION: General ventilation is usually adequate. Where product is used in an enclosed area, local extraction is recommended. It is not expected that the above Exposure Standards will be exceeded in any use of this product, having regard to the trace amounts of the listed items in the product.

#### PERSONAL PROTECTION

**Eyes** Use of chemical splash goggles is recommended

Hands/Feet PVC, rubber or neoprene footwear / gloves are recommended

Respiratory No problems foreseen. A half mask, air-purifying respirator is recommended if and

when the airborne concentrations rises to around 10 times of the TWA/TLVs

listed in the Exposure Limit Information

**Flammability** Not flammable under conditions of use.

# FLAMMABILITY LIMITS (%)

Lower Explosive Limit Not Applicable Upper Explosive Limit Not Applicable

**SOLUBILITY in H<sub>2</sub>O** Can be diluted

Although this product does not meet the parameters for flammability, it can burn in the presence of a strong ignition source after water has been removed from the product. Material can splatter at temperatures  $> 100\,^{\circ}\mathrm{C}$ 



#### SAFE HANDLING INFORMATION

#### Storage / Transport

This product is NOT classified as a Dangerous Good for the purpose of storage or transportation. Store in a cool place away from heat and ignition sources. If stored in bulk, then fumes could arise in tank. Observe safe tank entry procedure. Do not store in areas where the maximum temperatures can exceed 50°C. Keep partially used product containers closed. Store away from foodstuffs, clothing. Keep out of reach of children.

#### **Spills**

Minor: Absorb to sand, sawdust or an absorbent clay.

Alternatively add calcium or alum to the spill to coagulate solids. Dispose to landfill after drying. Major: Immediately contain, then pump to a container. Prevent entry to municipal sewers & open water.

#### Disposal

Separate solids by coagulation or drying. Place in secure container for disposal. Burn in an adequate incinerator or bury to dispose in an approved land-fill in accordance with State and /or Local Government regulations.

# FIRE / EXPLOSION

Flammable Limits in Air (% vol) LEL: None UEL: None

**Extinguishing Media** Any. (For surrounding fire, use appropriate media.)

**Fire Fighting** The material can splatter in temperatures  $> 100 \,^{\circ}$  C.

The dried polymer is combustible (as plastic).

**Additional Hazards** Smoke inhalation from ignition of dried polymer.

**Decomposition Products**May yield acrylic monomers on thermal decomposition

Hazardous Polymerization Will not occur.

**Instability** NIL --- Avoid temperatures above 165 ° C.

**Toxicological Information** As stated earlier under toxicity data available for this material.

#### **EMERGENCY CONTACTS**

Office hours Contact Number (65)-6546-1181 After hours Contact Number ----as above----

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