



MATERIAL SAFETY DATA SHEET

ALPHA PRIME MIO – Water-based Anti- Corrosion Primer

UN CODE No : NA D.G. CLASS : NA SUBSIDIARY RISK : NONE
HAZCHEM CODE : NA POISONS : 5 MANUF'R CODE : DPRACT
TOXIC SUBSTANCES SCHEDULE Not Listed MARINE POLLUTANT : NA

USE : Solution of Synthetic Polymer Emulsions, Inert Fillers, Corrosion Inhibitors
Used as a corrosion prevention primer in construction & surface coatings industry.

PHYSICAL DATA

APPEARANCE : Thick viscous liquid PERCENT VOLATILE : 30+% W/W
SPECIFIC GRAVITY : Approx 1.45-1.50 FLAMMABILITY LIMITS : LFL 1.1%
FLASH POINT : NA AUTO IGNITION : NA
ODOUR : Nil BOILING POINT : > 90°C

INGREDIENTS

<u>CHEMICAL ENTITY</u>	<u>CAS NO</u>	<u>PROPORTION</u>
Water	Not applicable	4.5
Synthetic Polymer Emulsion Blend	Proprietary	41
Ester Alcohol	025265-77-4	0.5
Titanium Dioxide Pigment	013463-67-7	8
Special MIO Pigments	051274-00-1	20
Inert Filler	014807-96-6	15
Inert Filler	14807-96-6	5
Zinc compounds)	60580-61-2)	4
Corrosion Inhibitors, various)	1314-13-2, 7779-90-0, 10101-39-0)	
Various additives	Proprietary	2

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

Swallowed May cause nausea

Eyes May cause light irritation and soreness

Skin May cause slight skin irritation

Inhaled May cause nausea, headache, irritation of nose, throat and lungs

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, immediately drink water. Do not induce vomiting. Seek medical attention.
Eye	Rinse open eye with plenty of water for 3-5 minutes. Seek medical advice if irritation persists.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water for 10 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 endotracheal 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

Nuisance Dust

Zinc compound 60580-61-2 Excessive inhalation can cause breathing difficulty.
 Eye and skin contact may cause irritation
 Use NIOSH approved chemical respirator, goggles, gloves when handling.

Sensitization Skin Possible sensitization effect
 Inhalation Possible sensitization effect

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 safety glasses, 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 H₂O 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 fully removed from the product. Material can splatter at temperatures > 100°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 46°C. Keep partially used product containers closed. Store away from foodstuffs, clothing and 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 (% volume)

LEL : None

UEL : None

Extinguishing Media

Any. (For surrounding fire, use appropriate media.)

Fire Fighting

The material can splatter in temperatures > 100°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

(65)-6777-3977

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