

Revision Date: 2014/09/01
Revision: 01
Supersedes Date: -



MATERIAL SAFETY DATASHEET MULAX UNDERWATER REPAIR UW ACTIVATOR

1. Identification of Substance/ Preparation and Company

Product Name: **MULAX UNDERWATER REPAIR UW ACTIVATOR**
Product Code: MUL11801
Company: Riga 3, 2993 LW, Barendrecht, The Netherlands
Chemical Name & Synonyms: Aliphatic polyamine hardener blend with inert fillers
For Information: Call on +31 (0)180-641777 (9am to 5pm)
In an Emergency: As Above

2. Hazards Identification

Causes Burns, may cause sensitization by skin contact. Harmful in contact with skin and if swallowed. Possible risk of impaired fertility.

Signs and Symptoms of Exposure (Acute Effects)

Contact of product with the eyes or skin quickly causes severe irritation and may cause burns narcosis and permanent injury. Inhalation of vapours may severely damage tissue and produce scarring. Vapour in low concentrations can cause lacrimation conjunctivitis and corneal edema when absorbed into the tissue of the eye. Inhalation of vapours may cause irritation in the respiratory tract coughing and chest pain may result.

3. Composition/ Information on Ingredients

Hazardous Components	Cas Number	Percentage	Classification
2,2 iminodiethylamine	111-40-0	5-30%	C; R34 Xn; R21/22, Xi; R43
Benzyl Alcohol	100-51-6	1-5%	Xn, R20/22
Bisphenol A	80-05-7	1-10%	Repro Cat 3 Xn; Xi, R37-41-43-62
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1-5%	Xn; R22 Xi; R36/38
m-phenylenebis(methylamine)	1477-55-0	1-5%	C, R34, Xn, R22, Xi, R43, N, R52/53
phenol	108-95-2	<1.0%	Muta Cat 3 T, R23/24/25, C, R34, R48/20/21/22-68

4. First Aid Measures

Summon immediate medical assistance after contact with skin, eyes, inhalation or ingestion

Eye: Flush eyes with plenty of water, seek medical advice
Skin: Remove product and contaminated clothing and wash area with water, seek medical advice. Except in most minor, superficial or localized burns, cover the affected area with a sterile dressing or clean sheeting. DO NOT APPLY GREASES OR OINTMENTS.
Ingestion: Drink plenty of water, DO NOT INDUCE VOMITING, seek medical attention immediately
Inhalation: Remove patient to fresh air. If breathing has stopped give assisted respiration. Prevent aspiration of vomit. Turn victims head to one side. Seek medical advice

5. Fire Fighting Measures

Extinguishing Media: Ignition will give rise to class B Fire, in case of fire use Water sprays, Dry chemical, CO2 or Alcohol foam
Exposure Hazards: May generate toxic, irritating or flammable combustion products. Sudden reaction and fire may result if mixed with an oxidizing agent.
Fire Fighting Equipment: Wear Self contained breathing apparatus, rubber boots, gloves and body suit.

6. Accidental Release Measures

Avoid contamination of ground and surface waters. Scrape up and transfer into a suitable container. Wash area with water. Refer to section 5, 8 and 13 for protective Measures and Disposal.

7. Handling and Storage

Avoid contact with skin, eyes and clothing. Handle in well ventilated area. Avoid breathing vapours. Wash hands after contact. Keep container tightly closed in a cool, well ventilated area. Keep away from oxidizers, heat or flames.

Revision Date: 2014/09/01
Revision: 01
Supersedes Date: -



MATERIAL SAFETY DATASHEET

MULAX UNDERWATER REPAIR UW ACTIVATOR

8. Exposure Controls/ Personal Protection

OCCUPATIONAL EXPOSURE LIMITS – 2,2iminodiethylamine WEL-LONG-TERM VALUE – 1ppm, 10mg/ m3

Respiratory: Not required during normal use
Ingestion: Not during normal use
Skin Protection: Protective clothing should be worn to avoid skin contact
Eye Protection: Safety Goggles

9. Physical/ Chemical Properties

Appearance:	White Paste	Odour:	Ammoniacal, Fishy
Viscosity:	N/A	Specific Gravity:	1.7g/cm3 at 20C
Boiling Point/ Range:	>200C	Flammability:	N/D
Flash Point:	>100C	Melting Point:	>180C
Auto Flammability:	N/D	Explosive Properties:	N/D
Oxidising Properties:	N/D	Vapour Pressure:	N/D
Evaporation Rate:	N/D	Solubility:	Insoluble in water
PH:	Alkaline	Partition Coefficient:	N/D

10. Stability and Reactivity

Stability: Stable
Materials to Avoid: Oxidising agents – cleaning solutions. Acids - reaction accompanied by large heat release occurs when the product is mixed with acids
Hazardous Decomposition: Carbon Monoxide, Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Combustion in an oxygen starved environment produces toxic products including nitriles and amides
Hazardous Polymerisations: None

11. Toxicological Information

Oral: No Data
Inhalation: N/A during normal use
Eye: Severe irritant. May cause burns
Skin: Severe Irritant. May cause burns

12. Ecological Information

Do not allow to enter water course. Waste from this product may present long term environmental hazards. Thus landfill sites must be considered less acceptable than incineration.

13. Disposal Considerations

In uncured state, dispose as chemical waste in accordance with local regulations.
In cured state when mixed correctly with the base component, dispose as solid waste.

14. Transport Information

UN No: 1759 **Class:** 8 **P.G:** III **Technical Name:** Amine, solid, corrosive, N.O.S.

15. Regulatory Information

Labelling:	Corrosive (C), Harmful (Xn), R Phrases (R34) (R21/22) (R43) S Phrases (S2) (S26) (S36/37/39) (S45)	Causes Burns Harmful in contact with skin and if swallowed May cause sensitization by skin contact Keep out of reach of children In case of contact with eyes, rinse immediately with plenty of water and seek medical advices Wear suitable protective clothing, gloves and eye/face protection In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)
-------------------	---	---

Revision Date: 2014/09/01
Revision: 01
Supersedes Date: -



MATERIAL SAFETY DATASHEET MULAX UNDERWATER REPAIR UW ACTIVATOR

Regulations: All components of this product are listed on the TSCA Inventory or are exempt from listing

16. Other Information

Risk phrases used in section 3 and not previously mentioned:

R22; Harmful if swallowed,
R20/22; Harmful by inhalation and if swallowed,
R37; Irritating to respiratory system,
R41; Risk of serious damage to eyes,
R36/38; Irritating to eyes and skin,
R52/53; Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment,
R23/24/25; Toxic by inhalation, in contact with skin and if swallowed,
R48/20/21/22; Harmful: Danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. **DATE OF PREPARATION: 13TH NOVEMBER 2009**

The information contained within this document is furnished without warranty of any kind. Users should consider this data only as a supplement of other information gathered by them and make independent determinations of suitability and completeness of information from all sources to ensure proper use and disposal of these materials and the safety of employees and customers.