Material Safety Data Sheet

Corrosion Treatment 3762 (RXSOL-16-3762-025)

1. Product and Company Identifaction

Product Name	RXSOL-16-3762-025
Product Type	Corrosion Treatment 3762

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA

Stock Point : Mumbai, Kandla, Kolkata, Chennai, Vizag, Fujairah, Muscat

Phone	+91 22 65113333 / 5555 / 9999 / 27611360
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com

2. Composition / informationon ingredients

chemials characterization Hazardous ingredients

Chemica Name	Concentration	CAS Number	EC Number	R Phrases*	Symbols	Disodium
2-Butoxy Ethanol	1-10%	111-76-2	203-905-0	20/21/22 36/38	Xn	
Thioglycolic Acid	1%	68-11-1	200-677-4	23/24/25 34	T	
Acetic acid	1-10%	64-19-7	200-580-7	10 35	c	
Alkyl Imidazoline	10-30%			38 41 50/53	Xi	N

The text of the R-phrases is shown in section 16.

3. Hazards Identification

Harmful by inhalation, in contact with skin & if swllowed.
Irritating to skin.
Risk of serious damage to eyes.
Toxics to aquatic organisms, may cause long-term adverse effect in the aquatic enviroment.

4. First Aid Measures

General information

Remove soiled Or soaked clothing immediately

After inhalation	If inhaled, remove immediately to fresh air; if not breathing give artificial respiration; obtain medical help f there is a breathing problem give oxygen seek medical advice immediately
After contact with skin	Rines skin immediatly with copious amount of water . Immediatlyremove contamimated clothing. consult a physician.
After contact with eyes	Rines immediately with running water for 30 minutes, keeping eyelids open.Consultat at once an ophthalmologist or a physician.
After ingestion	Rinse out mouth & give plenty of water to drink. Do not induce vomiting. In case of unconsciousness do not induce vomiting or give anything by mouth. Get medical treatmen Advice to doctor
Symptoms	Headache, dizziness, nausea,vomiting Eyes & mucous membrane irritation Harmful to the kidneys, the liver & the respiratory tract
Hazards	Causes severe eye damage / blindness.

5. Fire-fighting Measures

Suitable extinguishing media	dry chemicals extinguisher dry sand carbon dioxide foam
Special hazards from the substance itself, its combustion products or from its vapour	In the event or fire the following can be released Carbon monoxide (co) Carbon dioxide (co2) Sulphur oxides Hydrogen sulfied (H2S)
Special protective equipment for firelighting	wear full protective suit. wearresiratory protective when fighting fire
Further information	Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental Release Measures

Personal Precautions	Ensure adequate ventilation. wear suitable personal protective equipment Respiratory protective equipment
Environmental Precautions	Do not allow entry to drains, water courses or soil If the product gets into drains, inform the relevant authorities immediately.
Methods for cleaning up / taking up	Pick up with absorbent material. Dispose of absorbed material in accordance with the regulation Rines away rest with plenty of water.
Additional information	Do not let liqude drain into rivers, ponds or sewer systems.

7. Handling and Storage

Advice on safe handling	Avoid spilling, spraying or splashing Provide exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Have eyewash bottle in readiness.
Reuirement for storage rooms in vessels	Keep container tightly closed in a cool, well-ventilated place. Keep only in the original container

8. Exposure controls and personal protection

Occupational explosure controls **Additional advice on system design**
Provide general ventilation.

Exposure limit values

2-Butoxyethanol

CAS number :111-76-2
Directive on indicative explosure limits (amended)
EU OEL - Directive on indicative explosure limits
Revision :08/06/2000
Notation
Skin

2-Butoxyethanol
CAS number : 111-76-2
Directive on indicative explosure limits (amended)
EU OEL - Directive on indicative explosure limits
Revision :08/06/2000
Limit value short term -15 mins.

Value	246mg	50ppm

2-Butoxyethanol
CAS number :111-76-2
EH40 WELs (amended)
UK OEL - Eh40WELs
Revision :17/10/2007
Comment
Biological Monitoring Guidance Value
Can be absorbed through skin

2-Butoxyethanol
CAS number : 111-76-2
EH40 WELs (amended)
UK OEL-EH40 WELs
Revision :17/10/2007
Long term explosure limit (8 hour TWA reference period)

values :	25 ppm

2-Butoxyethanol
CAS number :111-76-2
EH40 WELs (amended)
UK OEL-EH40 WELs
Revision : 17/10/2007
Short term explosure limit-15 mins

Values	50ppm

Mercaptoacetic acid
CAS number :68-11-1
EH40 WELs (amended)
UK OEL-EH40 WELs
Revision : 17/10/2007
Long term explosure limit (8 hour TWA reference period)

Values :	3.8mg/m3	1 ppm

General protective measures
Do not inhale vapours
Avoid contact with eyes and skin

Hygiene measures
Ensure sufficient exhaust ventilation.
Do not eat , drink or smoke during work time.
Wash hand before breaks and after work.
Take off Immediately all contaminated clothing.

Respiratory protection :

If ventilation insufficient, use a respiratory protection apparatus.
Combination filter for organic and inorganic vapours (A/B)

Hand protection :	Neoprene gloves PVC gloves. Nitrile rubber gloves. Polyethylene gloves These type of protective gloves are offerd by varios manufacturers. Please note the manufacturers detailed statement , especially about the minimum thickness and the minimum breakthrough time. Consider also the particular working conditions under which the gloves are being used.
Eye protection :	tightly fitting safety googles face shield
Body protection :	protective clothing.

9. Physical and chemical properties

Form :	Liquid
Colour :	amber
Odour :	mild
Melting point :	not determined
Boiling point :	>100 C (1,011 hPa)
Flash point :	> 61 C
Method :	closed up
Ignition temperature :	Not applicable
Oxidizing properties :	Not applicable
Self-ignition tempreratur e :	Not applicable
Flammability Lower explosion limit :	1.1% (v) Data relate to solvent
Upper explosion limit :	10.6% (v) Date relate to solvent
Combustion number :	Not applicable.
Evaporation rate :	Not tested.
Vapour pressure :	Not tested.
Density :	1.00-1.08g/cm3 (25 C)
Method :	ASTM D 1298
Vapour density in relation to air :	not tested.
Solubility in water :	soluble
Soluble in... :	fat not tested.
pH value :	4.5-5.5
Octanol/ water partition coefficient (Log Pow) :	Not applicable
Viscosity (dyanamic) :	50mPa.s (25 C)

10. Stability and reactivity

Toxicological information	> 100 C
Hazardous reactions	No hazardous reaction when stored and handled according to prescribe instruction. With acids hydrogen sulphide is produced.
Hazardous decomposition product	Carbon monoxide and carbon dioxide Sulphurous oxides (SOx) Hydrogen sulphide (H2S)

11. Toxicological information

Acute oral toxicity :	LD50	200-2,000mg/kg (rat)
Acute inhalation toxicity :	LC50	2-20 mg/l (4 h, rat)
Acute dermal toxicity :	LD50	400 -2,000 mg/kg (rabbit)
Irritant effect on skin :	irritant	
Irritant effect on eyes :	risk of serious damage to eyes	
Sensitization :	Not tested.	
Mutagenicity :	Not tested.	
Remarks	The classification was made by the conventional (calculation) method of the dangerous Preparation directive (1999/45/ES)	

12. Ecological information

Biodegradability :	20-60 %
Fish toxicity :	LC50 1-10 mg/l (96 h)
Remarks	The classification was made by the conventional (calculation) method of the dangerous Preparation Directive (1999/45/EC)

13. Disposal considerations

Product	Dispose of in accordance with local authority regulations.

14. Transport information

ADR

Proper shipping name :	Enviromentally hazardous substance, liquid, n.o.s.
Class :	9
Packing group :	III
UN no.	UN 3082
Primary risk :	9
Hazard No.	90
Remarks :	Shipment permited
Hazard inducer(s)	ALKYLIMIDAZOLINES

ADNR

Proper shipping name :	Enviromentally hazardous substance, liquid, n.o.s.
Class :	9
Packing group :	III
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Remarks :	Shipment permited
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RID

Proper shipping name :	Enviromentally hazardous substance, liquid, n.o.s.
Class :	9
Packing group :	III
UN no.	UN 3082
Primary risk :	9
Hazard No.	90
Remarks :	Shipment permited
Hazard inducer(s)	ALKYLIMIDAZOLINES

IATA

Proper shipping name :	Enviromentally hazardous substance, liquid, n.o.s.
Class :	9
Packing group :	III
UN no.	UN 3082
Primary risk :	9
Hazard No.	90
Remarks :	Shipment permited
Hazard inducer(s)	ALKYLIMIDAZOLINES
Marine pollutant :	Marine pollutant
EmS :	F-A S-F

15. Regulatory information

Labelling in accordance with EC - Directives

Hazard symbols	Xn Harmful N Dangerous for the environment
Hazardous component(s) to be indicated on label	Thioglycolic acid
R phrases	20/21/22 Harmfull by inhalation, in contact with skin and if swallowed. rritating to skin. 38 Risk of serious damage to eye. 41 Toxics to aquatic organism, may cause long term adverse effect in the aquatic environment.
S phrases	24/25 Avoid contact with skin and eyes. 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 60 This material and its container must be displosed of as hazardous waste. 61 Avoid release to the environment. refer to special instruction / safety data sheet
Chemical safety Assessment	No chemicals safety assessment (CSA) is yet available for the substance or for the component substance, contained in this product

16. Other information

Text of the R-phrases assigned to the ingredients/components mentioned in section 3:

10	Flammable.
20/21/22	Harmful by inhalation , in contact with skin and if swallowed.
23/24/25	Toxics by inhalation, in contact with skin and if swallowed. aquatic environment.
34	Causes burns.
35	Causes severe burns.
36/38	Irritation to eyes and skin.
38	Irritation to skin.
41	Risk of serious damage to eyes.
50/53	Very toxic to aquatic organicsms, may cause long term adverse effect in the aquatic enviroment.

The data are based on the current state of our knowledge, and are intented to describe the product with regard to the requirement of safety . the data should not be taken to empty any guarantee of a particular of general specification. It is the responsibility of the user of the product to ensure to his satisfaction that the product is suitable for the intended purpose and method of use . We do not accept responsibility for any harm caused by the use of this information, in all case , our general condition of sale apply.

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