

1. Product and Company Identification

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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 / Information on ingredients

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chemicals 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	Xi	N
				50/53		

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

3. Hazards Identification

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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

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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 advice if a breathing problem give oxygen seek medical advice immediately
After contact with skin	Rines skin immediatly with copious amount of water . Immediatlyremove contaminated clothing and consult a physician.
After contact with eyes	Rines immediately with running water for 30 minutes, keeping eyelids open.Consultat 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
Hazards	Harmful to the kidneys, the liver & the respiratory tract Causes severe eye damage / blindness.

5. Fire-fighting Measures

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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 of fire the following can be released Carbon monoxide (CO) Carbon dioxide (CO ₂) Sulphur oxides Hydrogen sulfide (H ₂ S)
Special protective equipment for firefighting	wear full protective suit. wear respiratory protective when fighting fire
Further information	Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental Release Measures

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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 Rinse away with plenty of water.
Additional information	Do not let liquid drain into rivers, ponds or sewer systems.

7. Handling and Storage

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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.
Requirement 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

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Occupational exposure controls Additional advice on system design
Provide general ventilation.

Exposure limit values	2-Butoxyethanol CAS number :111-76-2 Directive on indicative exposure limits (amended) EU OEL - Directive on indicative exposure limits Revision :08/06/2000 Notation Skin 2-Butoxyethanol CAS number : 111-76-2 Directive on indicative exposure limits (amended)
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EU OEL - Directive on indicative exposure 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 exposure 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 exposure 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 exposure 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 offered by various manufacturers.

Please note the manufacturers detailed statement , especially about the minimum thickness and the breakthrough time. Consider also the particular working conditions under which the gloves are being used.

Eye protection :

tightly fitting safety goggles face shield

Body protection :

protective clothing.

9. Physical and chemical properties

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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 temprerature :	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/cm ³ (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) :	