

1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-51-6004-025
Product Type OS-100 Oxygen Scavenger

Company Details:

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

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

2. Composition / Information on ingredients

www.rxmarine.com

INGREDIENT	%W/W	CAS number
Sodium Sulfite	60-100	7757-83-7

3. Hazards Identification

www.rxmarine.com

See section 14 for GHS classification

4. First Aid Measures

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Inhalation	Remove from exposure. Get fresh air.
Ingestion	Induce vomiting only on the direct advice of a poison control centre. Get medical attention.
Eye contact	Flush with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Remove contaminated clothing and flush with plenty of water.

5. Fire-fighting Measures

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Flash point (test method)	Not applicable
Flammable limits (%)	Non-flammable
Lower	Not applicable.
Upper	Not applicable
Fire extinguishing substances	Use extinguishing media appropriate for surrounding fire.
Autoignition temperatures	Not applicable
Hazardous combustion products	May liberate carbon monoxide, carbon dioxide and sulphur dioxide.
Explosion data	

Sensitivity to mechanical impact	Not applicable
Sensitivity to static discharge	Not applicable
Special firefighting procedures	As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. Accidental Release Measures

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Personal precautions	Wear appropriate protective equipment.
Environmental precautions	Prevent from entering sewers, waterways or low areas.
Methods for cleaning up	Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into container to prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material in appropriate container and flush with water.

7. Handling and Storage

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Handling	Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	Keep out of reach of children. Keep container tightly closed. Store in a cool, dry place.

8. Exposure controls and personal protection

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Engineering controls	Provide exhaust ventilation to keep airborne levels below recommended limits.
Respiratory protection	If exposure exceeds occupational exposure limits, use an appropriate respirator.
Eye protection	Chemical goggles. Wear a face shield if splashing hazards exist.
Other protection	Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
Sodium Sulfite	TLV-TWA 5 mg/m ³		

9. Physical and chemical properties

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Physical state		Liquid
Solubility in water	5-10%	
Boiling point	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Evaporation rate	Not available	
Freezing point	Not available	
Odour threshold	Not available	
Sp. Gravity	1	
pH	Not available	
Appearance & odour	free-flowing powder	

10. Stability and reactivity

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STABILITY

Conditions of instability	Not available
Incompatibility	Not available
Conditions of reactivity	Not available
Hazardous decomposition products	Not available

11. Toxicological information

www.rxmarine.com

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation	Irritating to respiratory system.
Ingestion	Harmful if swallowed.
Eye contact	May cause mild to severe irritation such as stinging, tearing, redness and pain in eyes.
Skin contact	May cause skin irritation.
Skin absorption	Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation	Repeat or prolonged exposure may cause damage to lungs.
Ingestion	Not available
Eye contact	Not available
Skin contact	Prolonged contact may cause discomfort
Skin absorption	Not applicable
Irritancy of product	See WHMIS criteria
Sensitization of product	Not available
Carcinogenicity: IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
Reproductive toxicity	No known significant effects.
Teratogenicity	No known significant effects.
Mutagenicity	No known significant effects.
Synergistic product	No known significant effects.

HAZARDOUS INGREDIENTS

Sodium Sulfite	7757-83-7
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12. Ecological information

www.rxmarine.com

Ecotoxicological information	Not available
Other information	

13. Disposal considerations

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Waste disposal	Disposal of all waste must be done according to local, provincial and federal regulations.
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14. Transport information

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TDG classification

Sodium hydroxide, solution; Class 8; UN 1824; PG II

15. Regulatory information

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WHMIS

D2A

Other Toxic Effects

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other information

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The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.

<http://www.ostrem.com/msds/English/S748%20MSDS.pdf>

1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-51-6004-025
Product Type No. 45 Corrosion Inhibitor

Company Details:

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

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

2. Composition / Information on ingredients

www.rxmarine.com

INGREDIENT	%W/W	CAS number
Cyclohexylamine	7-13	108-91-8
Morpholine	3-7	110-91-8

3. Hazards Identification

www.rxmarine.com

4. First Aid Measures

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Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Induce vomiting only on the direct advice of a poison control centre. Drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.
Eye contact	Flush with plenty of water for at least 15 minutes. Get medical attention.
Skin contact	Remove contaminated clothing and flush with plenty of water for at least 30 minutes. Seek immediate medical attention.

5. Fire-fighting Measures

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Flash point (test method)	48C
Flammable limits (%)	Non-flammable
Lower	Not applicable.
Upper	Not applicable
Fire extinguishing substances	Use extinguishing media appropriate for surrounding fire.
Autoignition temperatures	Not applicable
Hazardous combustion products	May liberate carbon monoxide, carbon dioxide and nitrogen oxides.
Explosion data	
Sensitivity to mechanical impact	Not applicable
Sensitivity to static discharge	Not applicable
Special firefighting procedures	As for surrounding fire. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. Accidental Release Measures

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Personal precautions	Wear appropriate protective equipment.
Environmental precautions	Prevent from entering sewers, waterways or low areas.
Methods for cleaning up	Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into container. Prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material. Dispose of in appropriate container and flush with water.

7. Handling and Storage

www.rxmarine.com

Handling	Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	Keep out of reach of children. Keep container tightly closed. Store in a cool, dry place.

8. Exposure controls and personal protection

www.rxmarine.com

Engineering controls	Provide exhaust ventilation to keep airborne levels below recommended limits.
Respiratory protection	If exposure exceeds occupational exposure limits, use an appropriate respirator.

Eye protection
Other protection

respirator
Chemical goggles. Wear a face shield if splashing hazards exists.
Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
Cyclohexylamine	TLV 10 ppm	Not available	
Morpholine	TLV (skin) 20 ppm		

9. Physical and chemical properties

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Physical state		Liquid
Solubility in water	Complete	
Boiling point	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Evaporation rate	Not available	
Freezing point	Not available	
Odour threshold	Not available	
Sp. Gravity	0.987	
pH	alkaline	
Appearance & odour	clear, pale liquid with amine odour	

10. Stability and reactivity

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STABILITY

Conditions of instability	Not available
Incompatibility	(1) Water (2) Oxidizers (3) Acids (4) Heat (5) Other copper and copper alloys, lead Not available
Conditions of reactivity	Not available
Hazardous decomposition products	Not available

11. Toxicological information

www.rxmarine.com

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation	Corrosive to respiratory system.
Ingestion	Harmful if swallowed. Causes burns to mouth, throat and stomach.
Eye contact	Corrosive to eyes. Causes severe burns.
Skin contact	Corrosive to skin. Causes severe burns.
Skin absorption	Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation	Repeat or prolonged exposure may cause damage to lungs.
Ingestion	Perforation of the esophagus and stomach lining may occur.
Eye contact	Prolonged contact may lead to cataracts, glaucoma and permanent blindness.
Skin contact	Repeated skin exposure may produce local skin destruction or dermatitis.
Skin absorption	Not applicable
Irritancy of product	See WHMIS criteria
Sensitization of product	Not available
Carcinogenicity:	

IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
Reproductive toxicity	No known significant effects.
Teratogenicity	No known significant effects.
Mutagenicity	No known significant effects.
Synergistic product	Not available

HAZARDOUS INGREDIENTS	
Cyclohexylamine	108-91-8
Morpholine	110-91-8

12. Ecological information

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Ecotoxicological information	Not available
Other information	

13. Disposal considerations

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Waste disposal	Disposal of all waste must be done according to local, provincial and regulations.
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14. Transport information

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TDG classification	CORROSIVE LIQUID, FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE/MORPHOLINE); Class 8 (3); UN 2920; PG II
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15. Regulatory information

www.rxmarine.com

WHMIS	E	Corrosive material
	B3	Combustible material
	D1B	Toxic Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. Other information

www.rxmarine.com

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.

1. Product and Company Identification

www.rxmarine.com

Product Name RXSOL-51-6004-025
Product Type BD-86 Detergent Degreaser

Company Details:

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

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

2. Composition / Information on ingredients

www.rxmarine.com

INGREDIENT	%W/W	CAS number
Sodium Carbonate	15-40	497-19-8
Sodium Metasilicate	15-40	6834-92-0

3. Hazards Identification

www.rxmarine.com

See label. Do not inhale any fumes from these and keep.

4. First Aid Measures

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Inhalation	Remove from exposure. Get fresh air.
Ingestion	Induce vomiting only on the direct advice of a poison control centre. Get medical attention.
Eye contact	Flush with plenty of water for at least 15 minutes. Get medical attention
Skin contact	Remove contaminated clothing and flush with plenty of water.

5. Fire-fighting Measures

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Flash point (test method)	Not applicable
Flammable limits (%)	Non-flammable
Lower	Not applicable.
Upper	Not applicable

Fire extinguishing substances	Use extinguishing media appropriate for surrounding fire.
Autoignition temperatures	Not applicable
Hazardous combustion products	May liberate carbon monoxide, carbon dioxide and oxides of sodium.
Explosion data	
Sensitivity to mechanical impact	Not applicable
Sensitivity to static discharge	Not applicable
Special firefighting procedures	As for surrounding fire.

6. Accidental Release Measures

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Personal precautions	Wear appropriate protective equipment.
Environmental precautions	Prevent from entering sewers, waterways or low areas.
Methods for cleaning up	Isolate hazard area and restrict access. Small spills: soak up with inert absorbent material and scoop into container to prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent appropriate container and flush with water.

7. Handling and Storage

www.rxmarine.com

Handling	Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage	Keep out of reach of children. Keep container tightly closed. Store in a cool, dry place.

8. Exposure controls and personal protection

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Engineering controls	No special ventilation requirements.
Respiratory protection	Not normally necessary. An N95 NIOSH respirator may be worn.
Eye protection	Not normally necessary. Safety glasses may be worn.
Other protection	Not normally necessary.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
Sodium carbonate	Not available		
Sodium Metasilicate	Not available		

9. Physical and chemical properties

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Physical state	Solid
Solubility in water	10%
Boiling point	Not applicable
Vapour pressure	Not applicable
Vapour density	Not applicable
Evaporation rate	Not applicable
Freezing point	Not applicable
Odour threshold	Not available

Sp. Gravity	Not available
pH	1% Sol. 11.4
Appearance & odour	White granular powder with no odour

10. Stability and reactivity

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STABILITY

Conditions of instability	Not available
Incompatibility	(1) Water (2) Oxidizers (3) Acids (4) Heat (5) Other
Conditions of reactivity	Reacts with acids, chloramines, fluorides, sulfates, strong oxidized acids
Hazardous decomposition products	Not available

11. Toxicological information

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POTENTIAL ACUTE HEALTH EFFECTS

Inhalation	Breathing in the dust from this material may cause irritation and cough.
Ingestion	Harmful if swallowed. Causes burns to mouth, throat and stomach.
Eye contact	May cause mild to severe irritation such as stinging, tearing, redness and pain in eyes.
Skin contact	May cause skin irritation.
Skin absorption	Not applicable

POTENTIAL CHRONIC HEALTH EFFECTS

Inhalation	Repeat or prolonged exposure may cause damage to lungs.
Ingestion	Not available
Eye contact	Not available
Skin contact	Prolonged contact may cause discomfort.
Skin absorption	Not applicable
Irritancy of product	See WHMIS criteria
Sensitization of product	Not available
Carcinogenicity:	
IARC (1, 2A or 2B)	No known significant effects.
ACGIH: (A1, A2 or A3)	No known significant effects.
Reproductive toxicity	No known significant effects.
Teratogenicity	No known significant effects.
Mutagenicity	No known significant effects.
Synergistic product	Not available

HAZARDOUS INGREDIENTS

Sodium Carbonate	497-19-8
Sodium Metasilicate	6834-92-0

12. Ecological information

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