Material Safety Data Sheet

FALL PROTECTION F B H (RXSOL-64-2608-001)

http://www.ostrem.com/msds/English/S743%20MSDS.pdf

1. Product and Company Identifaction

Product Name	RXSOL-51-6004-025
Product Type	No. 20 Boiler Compound

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 / informationon ingredients

INGREDIENT	%W/W	CAS number
sodium hydroxide (50%)	2	1310-73-2
tetrasodium salt of ethylene diamine tetraacetic acid (EDTA)	3-7	64-02-8
methylene phosphonic acid, sodium salt	1-5	20592-85-2

3. Hazards Identification

Eye irritant, harmful if swallowed

4. First Aid Measures

Inhalation	Remove from exposure. Get fresh air.
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.

5. Fire-fighting Measures

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. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. Accidental Release Measures

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 containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. Handling and Storage

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 area.

8. Exposure controls and personal protection

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

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
sodium hydroxide (50% Sol.)	2 mg/m3 Ceil	Not available	
tetrasodium salt of ethylene diamine tetraacetic acid (EDTA)	Not available		
methylene phosphonic acid, sodium salt	Not available		

9. Physical and chemical properties

Physical state	Liquid

Boiling point	Not available
Vapour density	Not available
Freezing point	Not available
Sp. Gravity	1.103 pH: 11.5; 1:400: 8-8.5
Appearance & odour	clear, pale yellow liquid
Solubility in water	Complete
Vapour pressure	Not available
Evaporation rate	Not available
Odour threshold	Not available

10. Stability and reactivity

Stability	Stable
Conditions of instability	Not available
Incompatibility	( ) Water (X) Oxidizers (X) Acid ( ) Base ( ) Other
Conditions of reactivity	Reacts with acids and metals
Hazardous decomposition products	Not available

11. Toxicological information

POTENTIAL ACUTE HEALTH EFFECTS:

Inhalation	Irritating to respiratory system
Ingestion	Swallowing small amounts of this material is not likely to cause harmful effects. Large amounts may cause stomach and intestinal irritation, abdominal pain and vomiting.
Eye contact	May cause mild to severe irritation.
Skin contact	May cause irritation.
Skin absorption	Not available
POTENTIAL CHRONIC HEALTH EFFECTS:	
Inhalation	Repeat or prolonged exposure may cause damage to lungs.
Ingestion	Not available
Eye contact	Not available
Skin contact	Not applicable
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	CAS NO	TOXICITY DATA
sodium hydroxide (50%)	1310-73-2	LD 50 oral (rabbit) 36
tetrasodium salt of ethylene diamine tetraacetic acid (EDTA)	64-02-8	LD 50 Oral (rat) >200 LD 50 Dermal (rabbit)
methylene phosphonic acid, sodium salt	20592-85-2	LD 50 Oral (rat) 2910 LD 50 Dermal (rabbit)

12. Ecological information

Ecotoxicological information — Not available

Other information

13. Disposal considerations

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

14. Transport information

TDG classification — Non-Regulated

15. Regulatory information

NA

16. Other information

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.

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http://www.ostrem.com/msds/English/S759%20MSDS.pdf

1. Product and Company Identifaction

Product Name — RXSOL-51-6004-025

Product Type — B-10 Biocide

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 / informationon ingredients

INGREDIENT	%W/W	CAS number
2-bromo-2nitropropane-1.3diol	10	52-51-7

3. Hazards Identification

Concrentated solution is eye and skin irritant. Harmful if swallowed.

4. First Aid Measures

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

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 hydrogen bromide and oxides of nytrogen.
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

Personal precautions	Wear appropriate protective equipment to avoid contact with skin and eye
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 containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers. Clean up residual with absorbent material, place in appropriate container and flush with water.

7. Handling and Storage

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 area.

8. Exposure controls and personal protection

Engineering controls	Special ventilation requirements not normally necessary
Respiratory protection	Acceptable
Eye protection	Chemical goggles. Wear a face shield if splashing hazards exists.
Other protection	Wear protective clothing as necessary to prevent skin contact.

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
Not applicable			

9. Physical and chemical properties

Physical state	Liquid
Solubility in water	Complete
Boiling point	100C
Vapour pressure	Not available
Vapour density	Not available
Evaporation rate	Not available
Freezing point	Not available
Odour threshold	Not available
Sp. Gravity	1.05 pH: 6.5
Appearance & odour	Amber orange liquid with butyl odour

10. Stability and reactivity

STABILITY	Stable

Conditions of instability	Reacts with aluminum
Incompatibility	( ) Water (X) Oxidizers (X) Acid ( ) Base ( ) Other
Conditions of reactivity	Not available
Hazardous decomposition products	Not available

11. Toxicological information

POTENTIAL ACUTE HEALTH EFFECTS

Inhalation	Irritating to respiratory system.
Ingestion	Swallowing small amounts of this material is not likely to cause harmful effects. Large amounts may cause stomach and intestinal irritation, abdominal pain and vomiting.
Eye contact	May cause mild to severe irritation such as stinging, tearing, redness and swelling of the eyes.
Skin contact	May cause skin irritation.
Skin absorption	Not available
POTENTIAL CHRONIC HEALTH EFFECTS:	
Inhalation	Repeat or prolonged exposure may cause damage to lungs.
Ingestion	Not available
Eye contact	Not available
Skin contact	Not available
Skin absorption	Not available
Irritancy of product	No known significant effects.
Sensitization of product	Not available
Carcinogenicity:	No known significant effects.
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	CAS NO	TOXICITY DATA
2-bromo-2nitropropane-1.3diol	52-51-7	LD50 oral (rat)3070 m

12. Ecological information

Ecotoxicological information	Not available
Other information	

13. Disposal considerations

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

14. Transport information

TDG classification	Not regulated

15. Regulatory information

WHMIS	Not controlled	PCP No.21153.18

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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http://www.ostrem.com/msds/English/S744%20MSDS.pdf

1. Product and Company Identifaction

Product Name	RXSOL-51-6004-025
Product Type	No. 25 Boiler Compound

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 / informationon ingredients

INGREDIENT	%W/W	CAS number
Sodium hydroxide (50%)	3-7	1310-73-2
Sodium nitrite	15-40	7632-00-0

tetrasodium salt of ethylene diamine tetraacetic acid (EDTA)	5-10	64-02-8

3. Hazards Identification

Corrosive liquid. Causes burns. Harmful if swallowed.

4. First Aid Measures

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.

5. Fire-fighting Measures

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. Fire fighters should wear full protective clothing and self contained breathing equipment.

6. Accidental Release Measures

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 containers. Large spills: prevent contamination of waterways. Dike and pump into suitable containers.Clean up residual with absorbent material, place in appropriate

7. Handling and Storage

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 area.

8. Exposure controls and personal protection

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

Exposure limits:

INGREDIENT	ACGIH	OSHA	Other
Sodium hydroxide (50% Sol.)	2 mg/m3 Ceil.	Not available	
Sodium nitrite	Not available		
tetrasodium salt of ethylene diamine tetraacetic acid (EDTA)	Not available		

9. Physical and chemical properties

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	1.222
pH	alkaline
Appearance & odour	clear, pale liquid

10. Stability and reactivity

STABILITY	Stable
Conditions of instability	Not available
Incompatibility	( ) Water (X) Oxidizers (X) Acid ( ) Base ( ) Other
Conditions of reactivity	Reacts with acids and metals
Hazardous decomposition products	Not available

11. Toxicological information

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	Not available
Eye contact	Not available
Skin contact	Not applicable
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	CAS NO	TOXICITY DATA
Sodium hydroxide (50%)	52-51-7	LD50 oral (rabbit) 365
Sodium nitrite	7632-00-0	LD 50 Oral (rat) 85 m LC 50 Inhalation (rat)
tetrasodium salt of ethylene diamine tetrasodium salt of ethylene diamine	64-02-8	LD50 Oral (rat) >2000 LD50 Dermal (rabbit)

12. Ecological information

Ecotoxicological information	Not available
Other information	

13. Disposal considerations

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

14. Transport information

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

15. Regulatory information

WHMIS	E	Corrosive material
	D1B	Toxic Effects
	D2B	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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