

1. Product and Company Identification

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Product Name Sodium Methyl Mercaptide

Part Number RXSOL-19-3362-200

Company Details:....

RX MARINE INTERNATIONAL
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Website www.rxmarine.com

2. Composition / Information on ingredients

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Chemical Name	Cas No	Weight
Sodium Methyl Mercaptide	5188-07-8	20 - 25

3. Hazards Identification

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Signal Word Danger

Hazard Statements H226: Flammable liquid and vapor.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

Precautionary statements

Prevention: P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P363 Wash contaminated clothing before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: P403 + P235 Store in a well-ventilated place. Keep cool

Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

Classification of the substance or mixture

This product has been classified in accordance with the hazard

communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Flammable liquids, Category 3 Acute toxicity, Category 4, Oral Skin corrosion, Category 1A Serious eye damage, Category 1

4. First Aid Measures

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General advice	Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.
If inhaled	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
Eye Contact	Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist..
Swallowed	Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital..
Skin Contact	Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.

5. Fire-fighting Measures

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Flash point	29°C (84°F) Method: Tag closed cup
Autoignition temperature	No data available
Suitable extinguishing media	Alcohol-resistant foam. Carbon dioxide (CO ₂). Dry chemical.
Unsuitable extinguishing media	High volume water jet
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.
Specific hazards during fire fighting	Do not allow run-off from fire fighting to enter drains or water courses.
Fire and explosion protection	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Hazardous decomposition products	Sulfur oxides.
Further information	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Environmental Precaution	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. Handling and Storage

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Advice on safe handling	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.
Requirements for storage areas and containers	No smoking. Keep container tightly closed in a dry and wellventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Specific end use(s)	Chemical intermediate

8. Exposure controls and personal protection

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Exposure controls	No specific additional engineering controls are required. Provide good natural or artificial ventilation.
Skin and body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear. Complete head face and neck protection. Rubber apron. Footwear protecting against chemicals.
Eye/face protection	Eye wash bottle with pure water.
Body Protection	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hand protection	The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Respiratory protection	Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.
Hygiene measures	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

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Physical state	Liquid
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Colour	Colorless
Odour	Pungent
Flash point	29°C (84°F)
Molecular formula	CH ₃ SNa
Molecular weight	70.08 g/mol
pH	> 10
Evaporation Rate	Not Applicable
Explosive limits	No Data Available
Decomposition temperature	No data available
Vapour pressure	20.00 MMHG at 24°C (75°F)
Viscosity	No data available
Density	1.138 G/ML at 30°C (86°F)
Relative Density	No data available
Specific Gravity	No data available
Partition coefficient	No data available
Explosive properties	No data available
Solubility	Soluble
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

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Reactivity	Stable under recommended storage conditions.
Chemical stability	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Possibility of hazardous reactions	Hazardous reactions: Hazardous polymerization does not occur., Vapors may form explosive mixture with air. Further information: No decomposition if stored and applied as directed.
Conditions to avoid	Heat, flames and sparks.
Materials to avoid	May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
Hazardous decomposition products	Sulfur oxides
Other data	No decomposition if stored and applied as directed.

11. Toxicological information

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Acute oral toxicity	Sodium Methanethiolate : LD50: 581 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 401
Acute inhalation toxicity	Sodium Methanethiolate : No data available
Acute dermal toxicity	Sodium Methanethiolate : LD50: > 400 mg/kg Species: Rat Sex: male and female Method: OECD Test Guideline 402
Sodium Methyl Mercaptide Skin irritation	Extremely corrosive and destructive to tissue. Information given is based on tests on the mixture itself.
Sodium Methyl Mercaptide Eye irritation	Irreversible effects on the eye
Sodium Methyl Mercaptide Sensitization	Did not cause sensitization on laboratory animals.
Repeated dose toxicity	Species: Rat, male Sex: male Application Route: Inhalation Dose: 0, 2, 17, 57 ppm Exposure time: 13 wk Number of exposures: 7 h/d, 5 d/wk NOEL: 0.033 mg/l 17 ppm Lowest observable effect level: 0.118 mg/l 57 ppm Target Organs: Liver Information given is based on data obtained from similar substances. Species: Rat, male Sex: male Application Route: oral gavage Dose: 5, 15, 45 mg/kg/day Exposure time: 8 wk Number of exposures: once/d, 7 d/wk NOEL: 15 mg/kg Lowest observable effect level: 45 mg/kg Method: OECD Test Guideline 422 Target Organs: Blood, spleen Species: Rat, female Sex: female Application Route: oral
Sodium Methanethiolate	

gavage Dose: 5, 15, 45 mg/kg/day Exposure time: 8 - 9 wk Number of exposures: once/d, 7 d/wk NOEL: 15 mg/kg Lowest observable effect level: 45 mg/kg Method: OECD Test Guideline 422 Target Organs: Blood, spleen

Reproductive toxicity

Species: Rat Sex: male Application Route: oral gavage Dose: 5, 15, 45 mg/kg Exposure time: 8 wk Number of exposures: once/d, 7 d/wk Test period: 4 wks pre mating, mating and... Method: OECD Guideline 422 NOAEL Parent: > 45 mg/kg NOAEL F1: > 45 mg/kg Species: Rat Sex: female Application Route: oral gavage Dose: 5, 15, 45 mg/kg Exposure time: 8 - 9 wk Number of exposures: once/d, 7 d/wk Test period: 4 wks pre mating, mating and... Method: OECD Guideline 422 NOAEL Parent: > 45 mg/kg NOAEL F1: > 45 mg/kg

Sodium Methyl Mercaptide Aspiration toxicity

No aspiration toxicity classification.

12. Ecological information

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Toxicity to fish

Sodium Methanethiolate : LC50: 1.8 mg/l Exposure time: 96 h Species: Danio rerio (Zebra Fish) semi-static test Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Sodium Methanethiolate : EC50: 1.32 - 2.46 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea) static test Method: OECD Test Guideline 202

Toxicity to algae

Sodium Methanethiolate : ErC50: 15 mg/l Exposure time: 72 h Species: Pseudokirchneriella subcapitata (green algae) static test Method: OECD Test Guideline 201

Products Biodegradation

Sodium Methanethiolate : aerobic Result: Readily biodegradable. 64 % Testing period: 28 d Method: OECD Test Guideline 301D

Bioaccumulation Sodium Methanethiolate

Sodium Methanethiolate : This material is not expected to bioaccumulate.

Mobility

No data available

Short-term (acute) aquatic hazard Sodium Methanethiolate

Toxic to aquatic life.

Long-term (chronic) aquatic hazard Sodium Methanethiolate

This product has no known ecotoxicological effects.

13. Disposal considerations

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The information in this SDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product

The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging

Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

14. Transport information

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US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

UN2920, CORROSIVE LIQUIDS, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I, RQ (SODIUM HYDROXIDE)

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)

UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I, (29°C)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)

UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD)

UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM

(EUROPE))
RID (REGULATIONS CONCERNING THE INTERNATIONAL
TRANSPORT OF DANGEROUS GOODS (EUROPE))
ADN (EUROPEAN AGREEMENT CONCERNING THE
INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY
INLAND WATERWAYS)

METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I, (D/E)
UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM
METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I
UN2920, CORROSIVE LIQUID, FLAMMABLE, N.O.S., (SODIUM
METHANETHIOLATE, SODIUM HYDROXIDE), 8 (3), I

15. Regulatory information

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National legislation

SARA 311/312 Hazards :

Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation

CERCLA Reportable Quantity :

Calculated RQ exceeds reasonably attainable upper limit. Sodium Hydroxide

SARA 302 Reportable Quantity :

This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity :

This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity :

This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components :

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489).

16. Other information

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Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary

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