

1. Product and Company Identification

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Product Name
Part Number

Dimethyl Sulfide (DMS)
RXSOL-19-3070-210

Company Details:

RX MARINE INTERNATIONAL
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2. Composition / Information on ingredients

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| Name of Substance | Cas Number |
|-------------------|------------|
| Dimethyl Sulfide | 75-18-3 |

3. Hazards Identification

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Signal Word
Hazard Statements
Precautionary statements - prevention

Precautionary statements response
Other hazards

Danger
H225 Highly flammable liquid and vapor.
P210 Keep away from heat, hot surfaces, sparks, or
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equ
P241 Use explosion-proof electrical/ ventilating/ li
P242 Use non-sparking tools. P243 Take action to
None
This substance/mixture contains no components c
toxic (PBT), or very persistent and very bioaccumu

4. First Aid Measures

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Skin Contact
Eye Contact
Inhalation:

Ingestion

Most important symptoms/effects

Notes to Physician
If swallowed
Most important symptoms and effects, both acute and delayed

In case of skin contact: Take off immediately all c
After eye contact: rinse out with plenty of water. F
Move to fresh air. If not breathing, give artificial
Risk of serious damage to the lungs.
Clean mouth with water and drink afterwards plen
Poison Control Center immediately. If vomiting o
Breathing difficulties. Symptoms of overexposu
vomiting.
Treat symptomatically
After swallowing: make victim drink water (two g
The most important known symptoms and effects
section 11

Indication of any immediate medical attention and special treatment needed
Indication of any immediate medical attention and special treatment needed

No data available
No data available

5. Fire-fighting Measures

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Flammability of the Product
Suitable extinguishing media
Unsuitable extinguishing media
Flash Point
Autoignition Temperature
Explosion Limits Upper
Explosion Limits Lower
Sensitivity to Mechanical Impact
Sensitivity to Static Discharge
Specific Hazards Arising from the Chemical

Hazardous Combustion Products
Protective Equipment and Precautions for Firefighters

Further Information

Special hazards arising from the substance or mixture

Flammable.
Carbon dioxide (CO₂) Foam. Dry powder
For this substance/mixture no limitations of extinguishing media
31 °C / 87.8 °F
465 °C / 869 °F
6.7%
0.9%
No information available
No information available
Flammable. Containers may explode when heated. May travel to source of ignition and flash back.
Carbon monoxide (CO) Carbon dioxide (CO₂)
As in any fire, wear self-contained breathing apparatus (pressure-demand, full face, equivalent) and full protective gear.
Remove container from danger zone and cool with a water spray jet. Prevent fire extinguishing water from entering the container.
Carbon oxides Sulfur oxides Combustible. Pay attention to combustion gases or vapours possible in the event of a fire.
temperatures.

6. Accidental Release Measures

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Spillage

Personal Protection

Environmental Precaution
Methods and materials for containment and cleaning

Reference to other sections

Absorb with an inert material and put the spilled material in a container. Keep away from heat. Keep away from sources of ignition. Keep away from sewers, basements or confined areas; dike if necessary. Do not allow to enter drains. Check TLV on the label.
Advice for non-emergency personnel: Do not breathe vapour. Keep away from heat and sources of ignition. Evacuate the area. For personal protection see section 8.
Do not let product enter drains. Risk of explosion. Cover drains. Collect, bind, and pump off spills. Observe local regulations (e.g. 10). Take up with liquid-absorbent material (e.g. 10).
For disposal see section 13.

7. Handling and Storage

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Handling
Storage

Hygiene measures
Specific end use(s)

Advice on protection against fire and explosion Keep away from heat and sources of ignition. Take precautionary measures against static electricity.
Storage conditions Keep container tightly closed in a cool, dry place. Keep away from heat and sources of ignition. Handle and store under normal conditions. Keep container with care. hygroscopic
Change contaminated clothing. Wash hands after handling.
Apart from the uses mentioned in section 1.2 no other uses are recommended.

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| Molecular Formula | C8 H10 |
| Molecular Weight | 106.17 |
| Other safety information | Solubility in other solvents Ether at 20 °C - soluble |

10. Stability and reactivity

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| Reactivity Hazard | Vapors may form explosive mixture with air |
| Stability | The product is chemically stable under standard am |
| Possibility of hazardous reactions | Risk of explosion with: Peroxides Dioxane with Ni gases or vapours with: Oxidizing agents Oxygen |
| Conditions to avoid | Warming. |
| Incompatible materials | various plastics |
| Hazardous Decomposition Products | In the event of fire: see section 5 |
| Hazardous Polymerization | Hazardous polymerization does not occur. Hazardous |

11. Toxicological information

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| Acute oral toxicity | LD0 Oral - Rat - female - > 2.000 mg/kg (OECD Test Guideline 401) Inhalation - Rat - male and female - 4 h - 102 mg/l (OECD Test Guideline 402) Remarks: Limit Test |
| Acute dermal toxic | Acute toxicity estimate : 1,134 mg/kg |
| Skin corrosion | No data available |
| Toxic Effects on Humans | Acute Potential Health Effects: Skin: Causes skin irritation. eye irritation. Inhalation: Vapor causes respiratory irritation. |
| Special Remarks on Chronic Effects on Humans | Detected in maternal milk in human. Passes through placenta. foetotoxic in animal. May cause adverse reproductive effects (e.g. abortion and fetotoxicity) and birth defects based on animal studies. |
| Further information | Headache, somnolence, Dizziness, euphoria, agitation |
| After absorption: | Damage to: Kidney, Central nervous system, Liver |
| Germ cell mutagenicity | No data available Test Type: In vitro mammalian cell mutation test Metabolic activation: with and without metabolic activation Result: negative Test Type: Ames test Test system: Ames test activation: with and without metabolic activation Test Type: Micronucleus test Species: Mouse Cell Line: L5178Y OECD Test Guideline 474 Result: negative |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |
| Specific target organ toxicity - single exposure | No data available |
| Specific target organ toxicity - repeated exposure | No data available |
| Aspiration hazard | No data available |
| Additional Information | Repeated dose toxicity - Rat - male and female - C ₅₀ (oral level) - >= 250 mg/kg Remarks: Subchronic toxicity study. To the best of our knowledge, the chemical, product and its use have been thoroughly investigated. Systemic effects: After absorption: Dizziness agitation, spasms narcosis Other damage: Irritation of the respiratory tract. In accordance with good industrial hygiene and safety |

12. Ecological information

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| Toxicity to Fish | Toxicity to fish semi-static test LC50 - Oncorhynchus mykiss (Water flea) - 29 mg/l - 48 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates (Water flea) - 29 mg/l - 48 h (OECD Test Guideline 202) Toxicity to Pseudokirchneriella subcapitata (green algae) - > 100 mg/l |
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| Persistence and degradability | Biodegradability aerobic - Exposure time 28 d (Guideline 301D) |
| COD and BOD 5 | Not Available |
| Products of Biodegradation: | No information available. |
| Mobility in soil | No data available |
| Results of PBT and vPvB assessment | This substance/mixture contains no components toxic (PBT), or very persistent and very bioaccumulative. |
| Other adverse effects | No data available |

13. Disposal considerations

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| Waste treatment Method | See www.retrologistik.com for processes regarding disposal there if you have further questions. |
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14. Transport information

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|------------------------------|---------------------|
| UN Number | : ADR/RID: 1164 |
| Proper shipping name | |
| ADR/RID | : DIMETHYL SULPHIDE |
| IMDG | : DIMETHYL SULPHIDE |
| IATA | : Dimethyl sulphide |
| Transport hazard class(es) | : ADR/RID: 3 |
| Packaging group | : ADR/RID: II |
| Environmental hazards | : ADR/RID: No |
| Special precautions for user | : No data available |

15. Regulatory information

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| Federal and State Regulation | This material safety data sheet complies with the requirements of the European Union Directive 67/548/EEC (Classification, Labelling and Packaging Directive). |
| Other Regulation | Take note of Dir 94/33/EC on the protection of young people at work. |
| WHMIS (Canada) | CLASS B-2: Flammable liquid with a flash point between 23°C and 38°C, causing other toxic effects (VERY TOXIC). |
| DSCL (EEC) | R11- Highly flammable. R38- Irritating to skin. R41- Causes severe eye irritation. |
| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of the European Union Directive 67/548/EEC (Classification, Labelling and Packaging Directive). |
| National legislation | Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : 2012/18/EU |

16. Other information

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| Other Information | <p>The information above is believed to be accurate and reliable. However, we make no warranty of merchantability or fitness for a particular purpose with respect to such information, and we assume no liability for any claims, losses, or damages, direct, indirect, incidental, consequential or exemplary, arising out of the use of the information. International has been advised of the possibility of such claims.</p> <p>DISCLAIMER OF LIABILITY :The information provided is for informational purposes only and is not intended to be relied upon as a substitute for professional advice. The information is provided as is and is not guaranteed to be correct. However, the information is provided for your information and is not intended to be relied upon as a substitute for professional advice. The conditions or methods of handling, storage, or use may be beyond our knowledge. For the most current information, please refer to the product label and safety data sheet.</p> |
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product. If the product is used as a component
applicable.

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