# Material Safety Data Sheet

**Creosote Oil** (RXSOL-19-1629-210)

## 1. Product and Company Identifaction

| | |
|---|---|
| Product Name | RXSOL-19-1629-210 |
| Product Type | Creosote Oil |

**Company Details:**

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

| | |
|---|---|
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## 2. Composition / informationon ingredients

**Chemical characterization:**

**CAS No. Designation** **8001-58-9 Creosote**

**Identification number(s):**

**EINECS Number:** **232-287-5**

**Index number:** **648-101-00-4**

**Chemical characterization**

**Description: Complex mixture of aromatic hydrocarbons**

| **Dangerous components:** | Chemical Name | Hazardous Symbol | Percentage Value |
|---|---|---|---|
| CAS: 91-20-3<br>EINECS: 202-049-5 | naphthalene | Carc. Cat. 3; Xn, N; R 22-40-50/53 | 1% |
| CAS: 92-52-4<br>EINECS: 202-163-5 | biphenyl | Xi, N; R 36/37/38-50/53 | 0.5% |
| CAS: 8001-58-9<br>EINECS: 232-287-5 | Creosote | Carc. Cat. 2; T; R 45 | 100% |

## 3. Hazards Identification

T Toxic
N Dangerous for the environment

**Information pertaining to particular dangers for man and environment**

| | |
|---|---|
| R 45 | May cause cancer. |
| R 36/37/38 | Irritating to eyes, respiratory system and skin. |
| R 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| | For use in industrial installations or professional treatment only |
| **Classification system** | The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. |
| **Additional information:** | elevated transport- and storage temperature 40-50°C |

## 4. First Aid Measures

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| **General information** | Instantly remove any clothing soiled by the product.<br>Personal protection for the First Aider. |
| **After inhalation** | Supply fresh air; consult doctor in case of symptoms. |
| **After skin contact** | Clean affected area with soap and plenty of water.<br>Seek medical treatment |
| **After eye contact** | Rinse opened eye for several minutes under running water. Then consult doctor. |
| **After swallowing** | Rinse out mouth and then drink plenty of water.<br>Seek medical treatment |
| **Information for doctor** | Therapeutically measures: basic help, decontamination, symptomatic treatment. |

## 5. Fire-fighting Measures

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| **Suitable extinguishing agents** | CO2, extinguishing powder or water jet. Fight larger fire with foam. |
| **For safety reasons unsuitable extinguishing agents** | Water with a full water jet. |
| **Special hazards caused by the material, its products of combustion or resulting gases:** | Can be released in case of fire, Carbon monoxide (CO) |
| **Protective equipment:** | Do not inhale explosion gases or combustion gases. Wear self-contained breathing apparatus. |
| **Additional information** | Cool endangered containers with water spray jet. Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. |

## 6. Accidental Release Measures

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| **Person-related safety precautions:** | Ensure adequate ventilation |
| **Measures for environmental protection** | Inform respective authorities in case product reaches water or sewage system. |
| **Measures for cleaning/collecting:** | Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). |

## 7. Handling and Storage

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| **Handling** | **Information for safe handling:**<br>No special precautions necessary if used correctly. Ensure good ventilation/exhaustion at the workplace.<br>**Information about protection against explosions and fires:**<br>Keep ignition sources away - Do not smoke. Protect against electrostatic charges. |
| **Storage** | **Requirements to be met by storerooms and containers:**<br>Storehouses and workplaces must be sufficiently ventilated.<br>**Information about storage in one common storage facility:** Store away from oxidizing agents.<br>**Further information about storage conditions:** Keep container tightly seale |

## 8. Exposure controls and personal protection

**Additional information about design of technical systems:** No further data; see item 7.
**Personal protective equipment**
**General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals. Keep away from foodstuffs, beverages and food. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin.
**Breathing equipment:** Use breathing protection in case of insufficient ventilation.
**Protection of hands:**
**For the permanent contact in work areas without heightened risk of injury (e.g. Laboratory) gloves made of the following material are suitable:** Nitril rubber..... Butyl rubber
e.g. glove of Fa. KCL, www.KCL.de (sitemap): Camatril (art.-no. 731, 730, level 6, >480min), Butoject (art.-no.: 898, level 6, >480min)
**As protection from splashes gloves made of the following materials are suitable:** Nitril rubber,NBR e.g. oneway gloves fa. KCl www.KCL.de(sitemap): Dermatril (Art.-No. 740)
**Eye protection:** Tightly sealed safety glasses.
**Body protection:** Protective work clothing.

## 9. Physical and chemical properties

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| Odour | Aromatic |
| **Change in condition Boiling point/Boiling range:** | Liquid, Red, soluble in water |
| **Cloud point / clarification point:** | 30°C |
| **Ignition temperature:** | > 450°C (DIN 51 794) |
| **Self-inflammability:** | Product is not selfigniting. |
| **Danger of explosion:** | Product is not explosive. However, formation of explosive air/steam mixtures is possible. |

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| **Vapour pressure at 25°C:** | 1 hPa (DIN 51 754) |
| **Density at 20°C** | 1.02-1.15 g/cm3 (DIN 51 757) |
| **Solubility in / Miscibility with Water at 20°C:** | 0.2 g/l |
| **Viscosity:**<br>**kinematic at 100°C:** | 5 mm²/s (DIN 51 366) |

## 10. Stability and reactivity

**Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
**Dangerous reaction**
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised
**Dangerous products of decomposition:** No dangerous decomposition products known

## 11. Toxicological information

**Acute toxicity:**

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|---|---|
| **LD/LC50 values that are relevant for classification:**<br>**8001-58-9 Creosote** | Oral LD50 ca. 4000 mg/kg (rat)<br>Dermal LD50 > 3200 mg/kg (rat) |
| **Primary irritant effect:** | |
| **on the skin:** | Irritations of the skin are possible<br>In combination with UV-light, irritations of skin (phototoxic effects) may occur. |
| **on the eye:** | Irritations of the mucous membranes are possible. |
| **Sensitization:** | No sensitizing effect known. |
| **Additional toxicological information:** | When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. |

## 12. Ecological information

**Ecotoxical effects:**

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| **Acquatic toxicity:** | **8001-58-9 Creosote** |
| EC50 /72h (static) LC50 /48h (static) LC50 /96h (static) | 26 mg/l (algae)<br>1.14 mg/l (daphnia)<br>4.1-6.6 mg/l (fish) |
| **General notes:** | Do not allow product to reach underground or surface water or sewage system.<br>Danger to drinking water if even small quantities leak into soil. |

## 13. Disposal considerations

**Product:**

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| **Recommendation** | Remove according to local authority recommendations, e.g. convey to a suitable incinerator. |
| **European waste catalogue** | The waste code classification is to be carried out according to the European Waste Catalogue (EWC) specifically for each branch of industry and each type of process. |

**Uncleaned packagings:**

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| **Recommendation:** | Disposal must be made according to official regulations. |

## 14. Transport information

**Land transport ADR/RID (cross-border)**

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| **ADR/RID Class:** | 9 Miscellaneous dangerous substances and articles. |
| **Hazard Index Number:** | 90 |
| **Substance Index Number:** | 3082 |
| **Packaging group:** | III |
| **Label:** | 9 |
| **Designation of goods:** | 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote) |

**Maritime transport IMDG:**

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|---|---|
| **IMDG Class:** | 9 |
| **UN Number:** | 3082 |
| **Label** | 9 + MP |
| **Packaging group:** | III |
| **EMS Number:** | F-A,S-F |
| **Marine pollutant:** | Yes (P) |
| **Correct technical name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote) |

**Air transport ICAO-TI and IATA-DGR:**

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|---|---|
| **ICAO/IATA Class:** | 9 |
| **UN/ID Number:** | 3082 |
| **Label** | 9 |
| **Packaging group:** | III |
| **Correct technical name:** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Creosote) |

## 15. Regulatory information

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|---|---|
| **Designation according to EC guidelines:** | The product has been labelled in accordance with EC Directives / relevant national laws. |
| **Code letter and hazard designation of product:** | T Toxic<br>N Dangerous for the environment |
| **Hazard-determining components of labelling:** | Creosote |

**Risk phrases:**

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|---|---|
| 45 | May cause cancer. |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

**Safety phrases:**

| | |
|---|---|
| 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| 27/28 | After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. |
| 36/37/39 | Wear suitable protective clothing, gloves and eye/face protection. |
| 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| 61 | Avoid release to the environment. Refer to special instructions/safety data sheets. |

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|---|---|
| **Special designation of certain preparations:** | For use in industrial installations or professional treatment only |

## 16. Other information

This data is based on our present knowledge. However, it shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Relevant R-phrases (chapter 2 and 3)**

| | |
|---|---|
| 22 | Harmful if swallowed |
| 36/37/38 | Irritating to eyes, respiratory system and skin. |
| 40 | Limited evidence of a carcinogenic effect. |
| 45 | May cause cancer.. |
| 50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

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