

1. Product and Company Identification

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Product Name RXSOL ORG LOCO 20⁷ Locomotive Cleaner
Part Number RXSOL-35-4165-210

Company Details:

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

Stock Point ::: Canada, Muscat, Fujairah, Kenya Mombasa, Mumbai, Gandhidham, Kolkata, Vizag, Chennai

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2. Composition / Information on ingredients

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| Chemical Name | Percentage | Cas Number | EC Number | R Phares |
|---|------------|------------|-----------|-----------------------------|
| Potassium Hydroxide | 10-30% | 1310-58-3 | 215-181-3 | R22, R35 - H302, H290, H314 |
| C6 Alkylglucoside | 1-5% | 54549-24-5 | 259-217-6 | |
| Proprietary Blend of Surfactant mixture | 15-20 | | | |

R/H Phrases: R41 - H318

3. Hazards Identification

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Corrosive

Hazard phrases ::: Harmful if swallowed . Causes severe skin burns and eye damage).

May be corrosive to metals .

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting .

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.Rinse skin with water/shower.

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 or doctor/physician .

4. First Aid Measures

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| Inhalatin | Remove Patient to fresh air. Seek medical advice if necessary |
| Eye Contact | If substance has got into eyes, immediately wash out with plenty of water for at least 15 minutes Irrigate eyes thoroughly whilst lifting eyelids Obtain immediate medical attention Continue flushing with water until medical help arrives |
| Ingestion | Do not induce vomiting.Never give anything by mouth to an unconscious |

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| | person Give water or milk to drink Obtain immediate medical attention |
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5. Fire-fighting Measures

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| Extinguishing media | Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions |
| Special hazards arising from the substance or mixture | Smoke from fires is irritating |
| Advice for firefighters | Wear Breathing Apparatus |

6. Accidental Release Measures

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| Personal precautions, protective equipment and emergency procedures | Wear protective clothing as per section |
| Environmental Precautions | Do not allow to enter public sewers and watercourses |
| Methods and material for containment and cleaning up | Absorb spillage in inert material and shovel up. Ventilate the area and wash spill site after material pick-up is complete |
| Reference to other sections | Section 13 |

7. Handling and Storage

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| Precautions for safe handling | Eyewash bottles should be available. Do not get in eyes, on skin, or on clothing |
| Conditions for safe storage, including any incompatibilities | Store materials in cool and dry place. Container should be tightly closed. Store in a well-ventilated place |
| Protect from | Direct Sunlight |

8. Exposure controls and personal protection

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Control parameters - potassium hydroxide

Exposure controls - No special ventilation is required unless the product is used in a spray form

Occupational exposure controls

Body Protection

Wear suitable protective clothing, including eye/face protection and gloves.

Eye Protection

Wear eye protection (on possibility of contact)

Hand protection

Wear PVC chemical resistance protective glove



Gloves

Goggles

9. Physical and chemical properties

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Appearance

Clear liquid to pale Yellow

Density

In g/cm³ at 20°C: 1.16 - 1.18

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|---------------|-----------------------|
| Compatibility | |
| Metal | No known effect |
| Rubber | No known effect |
| pH | Alkaline (13 -14) |
| Flash point | Not Applicable |
| Solubility | 100% soluble in water |
| Boiling point | >100 °C to 760 °C |

10. Stability and reactivity

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|----------------------------------|---|
| Reactivity | No hazardous reactions known if used for its intended purpose |
| stability | Considered stable under normal conditions |
| Hazardous reactions | No hazardous reactions known if used for its intended purpose |
| Conditions to avoid | Avoid contact with aluminium ,galvanised metals and zinc |
| Incompatible materials | Incompatible with acid and oxidizing substances |
| Hazardous Decomposition Products | No hazardous decomposition products known |

11. Toxicological information

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| Information on toxicological effects | LD50 (oral,rat) >2000 mg/kg |
| Contact with eyes | Can cause damage to the eyes |
| Contact with skin | Causes redness and irritation .Prolonged skin or eye contact may cause chemical burns. |
| Ingestion | The ingestion of significant quantities may cause burning sensation.The ingestion of significant quantities may cause damage to digestive system |
| Inhalation | In cases of severe exposure, irritation may develop |

12. Ecological information

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Toxicity

- LC50 (fish) >100 mg/l (Alkylglucoside hr)
- Biodegradability. OECD-test. 28 days >60 % (Alkylglucoside)
- EC50 (daphnia) >100 mg/l (Alkylglucoside hr)
- This product contains an alkaline substance which may cause a high pH-value.
- Effect depends on waterquality and the organisms tolerance due to pH-value.
- This product does not contain ingredients which are classified in the EU as dangerous for the environment.

Persistence and degradability

- Its main ingredients will either dissolve rapidly and dissociate in water or are readily/inherently biodegradable.

Bioaccumulation Potential

- Bioaccumulation of the components in this product is insignificant.

Mobility in soil

- Completely soluble in water

Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII

13. Disposal considerations

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As per guide line of local rules and regulation and before disposal and neutralization pl. refer 07 article. Do not discharge into drains or the environment, dispose to an authorised waste collection point

14. Transport information

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Proper Shipping Name
UN

| | |
|----------------------|-------------------------------|
| Proper Shipping Name | Potassium hydroxide, solution |
| UNNo. | 1824 |
| Hazard Class | 8 |
| PackingGroup | II |

Road/Rail(ADR/RID)

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|----------------------|-------------------------------|
| Proper Shipping Name | Potassium hydroxide, solution |
| ADR UN No. | 1824 |
| ADR Hazard Class | 8 |
| Tremcard | 80S1824 |

Sea(IMDG)

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|----------------------|-------------------------------|
| Proper Shipping Name | Potassium hydroxide, solution |
| IMDG UN No. | 1824 |
| IMDG Hazard Class. | 8 |
| IMDG Pack Group. | II |
| IMDG EmS | F-A, S-A |
| IMDG subrisk | N/A |
| IMDG Labels | 8 |
| IMDG Flash point | N/A |

Air(ICA0/IATA)

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|----------------------|-------------------------------|
| Proper Shipping Name | Potassium hydroxide, solution |
| ICA0 Un No. | 1824 |
| ICA0 Hazard Class | 8 |
| ICA0 Packing Group. | II |
| ICA0 subrisk | N/A |
| ICA0 Labels | 8, CAO |
| ICA0 Flashpoint | N/A |

DOT/ CFR (US Department of Transportation)

| | |
|--------------------------|-------------------------------|
| DOT Proper Shipping Name | Potassium hydroxide, solution |
| Hazardous Material | Potassium hydroxide |
| Hazard Class | 8 |
| Identification Number | UN 1824 |
| Product RQ (lbs) | 3640 |
| DOT subrisk | N/A |
| DOT Labels | 8 |
| DOTFlashpoint | N/A |

15. Regulatory information

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Classification and labelling according to Chemicals Hazard Information and Packaging Regulations (CHIP). Symbols of danger :- C Corrosive

R phrases

R 35 : Causes severe burns

S-phrases

S2: Keep out of reach of children S26 :In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28 : After contact with skin, wash immediately with plenty of water. S37/39 : Wear suitable gloves and eye/face protection.

16. Other information

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