Material Safety Data Sheet

RXSOL ORG LOCO 20 Locomotive Cleaner (RXSOL-41-4165-025)

1. Product and Company Identifaction

Product Name	RXSOL ORG LOCO 20™ Locomotive Cleaner
Part Number	RXSOL-41-4165-025

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

Phone	+91 22 65113333 / 5555 / 9999 / 27815540
Fax	+91 22 2781 1318 :::AOH :0091 9821214367
Email	mail@rxmarine.com
Website	www.rxmarine.com

2. Composition / informationon ingredients

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	
Proprietory Blend of Surfactant mixture	15-20	.....	.....	.....

R/H Phrases: R41 - H318

3. Hazards Identification



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

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 person Give water or milk to drink Obtain immediate medical attention

5. Fire-fighting Measures

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

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

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

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

Appearance	Clear liquid to pale Yellow
Density	In g/cm3 at 20°C: 1.16 - 1.18

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

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

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

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

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

Proper Shipping Name

UN

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

Road/Rail(ADR/RID)

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

Sea(IMDG)

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(ICAO/IATA)

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

ICAO 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

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

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 Rx Marine International be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Rx Marine International has been advised of the possibility of such damages.