Material Safety Data Sheet

PL-CON Tank cleaner (RXSOL-20-2221-025)

1. Product and Company Identifaction

Product Name	PL-CON Tank cleaner
Part Number	RXSOL-20-2221-025

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

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Website	www.rxmarine.com

2. Composition / informationon ingredients

Name of Substance	Cas Number	EC Number	Molecular Formula	Molar Mass
PL-CON Tank cleaner	7697-37-2	231-714-2	HNO3	63,01 g/mol

3. Hazards Identification

Handling Signal Word	Danger
Hazard Statements	H272 May intensify fire; oxidiser. H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.
Precautionary statements - prevention	P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking. P220 Keep/store away from clothing/combustible materials. P221 Take any precaution to avoid mixing with combustibles. P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - response	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: remove person to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see on this label). P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: use sand, carbon dioxide or powder extinguisher for extinction. P390 Absorb spillage to prevent material damage.

4. First Aid Measures

General Note	Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops and persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear. Serious Ingestion: Not available.

5. Fire-fighting Measures

Flammability	Non-flammable.
Flash Point	Not applicable.
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Hazardous combustion products	Nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)
Protective Equipment	Use personal protective equipment.
Advice for firefighters	In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

6. Accidental Release Measures

Small Spillage	Dilute with water and mop up, or neutralise by Soda Ash solution, and place in an appropriate waste disposal container Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Personal Protection	Remove persons to safety. Wear breathing apparatus if exposed to vapours/dust/spray/gases.
Enviromental Precaution	Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.
Methods and materials for containment and cleaning	Covering of drains. Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, diatonic soil, sand, universalbinder).Neutralisation techniques - Use of adsorbent materials.Place in appropriate containers for disposal. Ventilate affected area.

7. Handling and Storage

Handling	Do not get in eyes, on skin, or on clothing.Use local and general ventilation. Use only in well ventilated areas. Take any precaution to avoid mixing with combustibles. Do not mix with alkali. organic absorbing material - pulp/paper - caustic solutions. Wash hands thoroughly after handling.
Storage	Store in corrosive resistant container with a resistant inner liner. Keep reduction valves free from grease and oil.Observe hints for combined storage. Keep/store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Packing : Only packagings which are approved (e.g. acc. to ADR) may be used.
Advice on general occupational hygiene	Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

8. Exposure controls and personal protection

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots. Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits:	TWA: 2 STEL: 4 (ppm) from ACGIH (TLV) [United States] TWA: 2 STEL: 4 from OSHA (PEL) [United States] Consult local authorities for acceptable exposure limits.
Other Protection Measure	Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. In case of inadequate ventilation wear respiratory protection. Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



Gloves



Suit

9. Physical and chemical properties

Form	Liquid
Colour	Different
Odour	characteristic
Solubility	Soluble in water
Soluble in water	Infinite
Specific Gravity (20 °C	1.002
pH	Acidic
Boiling Point	121°C (249.8°F)
Melting Point	-41.6°C (-42.9°F)
Critical Temperature	Not Available
Flammability (solid, gas)	Not relevant (fluid)
Explosive limits	Not Determine
Vapour pressure	Not Determine
Density	Not Determine
Relative density Information	Not Determine
Viscosity	Not Determine
Partition coefficient	---------
Explosive properties	None
Oxidising properties	Oxidiser

10. Stability and reactivity

Recativity	Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". It's a reactive substance: The mixture contains reactive substance(s): oxidising property, corrosive to metals
Stability	Product is stable.
Possibility of hazardous reactions	No known hazardous reactions.
Conditions to avoid	There are no specific conditions known which have to be avoided.Keep reduction valves free from grease and oil.
Incompatible materials	bases - combustible materials
Hazardous combustion products	bases -Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5. combustible materials

11. Toxicological information

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity	Shall not be classified as acutely toxic.
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.
Specific target organ toxicity (STOT)	Shall not be classified as a specific target organ toxicant.
Aspiration hazard	Shall not be classified as presenting an aspiration hazard.
Other information	Corrosive to the respiratory tract

12. Ecological information

Toxicity	Shall not be classified as acutely toxic.
Process of degradability	Causes severe skin burns and eye damage.
Bioaccumulative potential	Causes serious eye damage.
Mobility in soil	Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.
Results of PBT and vPvB assessment	Shall not be classified as a specific target organ toxicant.
Other adverse effects	Shall not be classified as presenting an aspiration hazard.

13. Disposal considerations

Waste treatment-relevant information	Recycling/reclamation of other inorganic materials. Regeneration of acids
Sewage disposal-relevant information	Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.
Waste treatment of containers/packagings	It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.
Relevant provisions relating to waste	not assigned
Remarks	Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.
Waste Disposal	Waste should be disposed of in according to local rule and regulation.

14. Transport information

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : The cargo is not intended to be carried in bulk.

Transport of dangerous goods by road , rail and inland waterway (ADR/RID/ADN)

UN Number	2031
Proper shipping name	NITRIC ACID
Particulars in the transport document	UN2031, NITRIC ACID, 8 (5.1), II, (E)
Class	8
Classification code	CO1
Packing group	II
Danger label(s)	8+5.1
Hazard identification No	85

International Maritime Dangerous Goods Code (IMDG)

UN Number	2031
Proper shipping name	NITRIC ACID
Particulars in the transport document	UN2031, NITRIC ACID, 8 (5.1), II, (E)
Class	8
Subsidiary risk(s)	5.1
Packing group	II
Danger label(s)	8+5.1
EmS	F-A , S-Q
Stowage category	D
Segregation group	1, Acidic

International Civil Aviation Organization (ICAO-IATA/DGR)

UN Number	2031
Proper shipping name	NITRIC ACID
Particulars in the transport document	UN2031, NITRIC ACID, 8 (5.1), II, (E)
Class	8
Subsidiary risk(s)	5.1
Packing group	II
Danger label(s)	8+5.1
Special provisions (SP)	A1
Excepted quantities (EQ)	E0

15. Regulatory information

Fedral and State Regulation	Safety, health and environmental regulations/legislation specific for the substance or mixture. OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)
Sewage disposal-relevant informationWater pollution effect indication	Slightly harmful to aquatic organisms.
Chemical Safety Assessment	No Chemical Safety Assessment has been carried out for this substance.

16. Other information

Full text of R-Phrases

R22 :Harmful if swallowed.
R23/24/25 :Toxic by inhalation, in contact with skin and if swallowed.
R34 :Causes burns.
R35 :Causes severe burns.
R38 :Irritating to skin.
R41 :Risk of serious damage to eyes.
R43 :May cause sensitization by skin contact.
H272 :may intensify fire; oxidiser
H290 :may be corrosive to metals
H314 :causes severe skin burns and eye damage
R35 :causes severe burns
R8 : contact with combustible material may cause fire

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