Material Safety Data Sheet

Per Chloro Ethylene 300 KG (RXSOL-19-1418-030)

1. Product and Company Identifaction

Product Name	RXSOL-19-1418-030
Product Type	Perchloro Ethylene-300 Kgs

Company Details:

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

Stock Point : Mumbai, Fujairah, Muscat, Nairobi, Kandla, Surat, Kolkata, Visakhapatnam, 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	CAS Number	EC Number	Index number
Tetrachloroethylene	127-18-4	204-825-9	602-028-00-4

3. Hazards Identification

Hazard description:
Information concerning particular hazards for human and environment:
R 40 Limited evidence of a carcinogenic effect.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

After inhalation	Supply fresh air; consult doctor in case of complaints.
After skin contact	Generally the product does not irritate the skin.
After eye contact	Rinse opened eye for several minutes under running water.
After swallowing	If symptoms persist consult doctor.

5. Fire-fighting Measures

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Protective equipment: No special measures required.

6. Accidental Release Measures

Person-related safety precautions: Not required.
Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation

7. Handling and Storage

Handling:
Information for safe handling:
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Information about fire - and explosion protection: No special measures required.
Storage:
Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: None.

8. Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

127-18-4 tetrachloroethylene

PEL (USA)	Short-term value: C 200; 300* ppm Long-term value: 100 ppm *5-min peak in any 3 hrs
REL (USA)	LFC (LOQ 0.4 ppm) Short-term value: 685 mg/m³, 100 ppm Long-term value: 170 mg/m³, 25 ppm BEI
TLV (USA)	Short-term value: 689 mg/m³, 100 ppm
WEL (Great Britain)	Long-term value: 345 mg/m³, 50 ppm

Additional information: The lists valid during the making were used as basis.
Personal protective equipment:
General protective and hygienic measures: Keep away from foodstuffs, beverages and feed.Wash hands before breaks and at the end of work.
Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye protection: Goggles recommended during refilling

9. Physical and chemical properties

General Information

Form	Fluid
Colour	Colourless
Odour	Like chlorine

Change in condition

Melting point/Melting range	-23.5°C
Boiling point/Boiling range	121.1°C
Flash point	Not applicable.
Danger of explosion	Product does not present an explosion hazard.
Vapour pressure at 20°C	19 hPa
Density at 20°C	1.6063 g/cm³
Solubility in / Miscibility with water at 20°C	0.4 g/l

10. Stability and reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Dangerous reactions No dangerous reactions known.
Dangerous decomposition products: No dangerous decomposition products known.

11. Toxicological information

Acute toxicity:

LD/LC50 values relevant for classification:

Oral	LD50	2629 mg/kg (rat)

Primary irritant effect:

on the skin	No irritant effect.
on the eye	No irritating effect.
Sensitization	No sensitizing effects known.

12. Ecological information

Ecotoxical effects:
• Remark: Toxic for fish
General notes: Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

13. Disposal considerations

Product:
Recommendation
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Uncleaned packaging:
Recommendation: Disposal must be made according to official regulations.

14. Transport information

Land transport ADR/RID (cross-border)

ADR/RID class	6.1 Toxic substances.
Danger code (Kemler)	60
UN-Number	1897
Packaging group	III

	Hazard label	6.1
	Special marking	Symbol (fish and tree)
	Description of goods	1897 TETRACHLOROETHYLENE
Maritime transport IMDG		
	IMDG Class	6.1
	UN Number	1897
	Label	6.1
	Packaging group	III
	EMS Number	F-A,S-A
	Marine pollutant	Yes (P)
	Special marking	Symbol (fish and tree)
	Proper shipping name	TETRACHLOROETHYLENE
Air transport ICAO-TI and IATA-DGR		
	ICAO/IATA Class	6.1
	UN/ID Number	1897
	Label	6.1
	Special marking	Symbol (fish and tree)
	Packaging group	III
	Proper shipping name	TETRACHLOROETHYLENE
	Environmental hazards	Environmentally hazardous substance, liquid; Marine Pollutant

15. Regulatory information

Labelling according to EU guidelines:
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
Risk phrases:
40 Limited evidence of a carcinogenic effect.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases:
2 Keep out of the reach of children.
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
36/37 Wear suitable protective clothing and gloves.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

16. Other information

This information is based on our present knowledge.However, this shall not constitute a guarantee for anys pecific product features and shall not establish a legally valid contractual relationship.

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