## 1. Product and Company Identifaction

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Porduct Name Perchloroethylene
Part Number RXSOL-19-3760-300

Company Details:

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

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

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 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

# 2. Composition / Information on ingredients

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Chemical Name Cas No EC No Whight Classification

Tetrachloroethylene 127-18-4 204-825-9 165,83 g/mol Skin Irrit. 2; Eye Irrit. 2; EMPLURA® Skin Sens. 1; Carc. 2;

### 3. Hazards Identification

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Signal Word Danger

Hazard Statements H300 + H310 Fatal if swallowed or in contact with skin.

Precautionary statements P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective

gloves/ protective clothing. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a

POISON CENTER/ doctor.

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No

1272/2008.

None

Supplemental Hazard Statements

Other hazards This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

### 4. First Aid Measures

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General advice Show this material safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

Eye Contact After eye contact: rinse out with plenty of water. Call in ophthalmologist.

Remove contact lenses.

Swallowed After swallowing: immediately make victim drink water (two glasses at

most). Consult a physician.

Skin Contact In case of skin contact: Take off immediately all contaminated clothing.

Rinse skin with water/ shower. Consult a physician.

Inhalation fresh air. Call in physician.

Ingestion Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately. Most important symptoms and effects, both acute and delaye The most important known symptoms and effects are described in the

Indication of any immediate medical attention and special treatment needed

labelling (see section 2.2) and/or in section 11

No data available

### 5. Fire-fighting Measures

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Flammability May be combustible at high temperature.

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances

and the surrounding environment.

Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are

given.

Special hazards arising from the substance or mixture Carbon oxides Hydrogen chloride gas Not combustible. Fire may cause

evolution of: Hydrogen chloride gas, Phosgene Ambient fire may liberate

hazardous vapours.

Further information Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent

fire extinguishing water from contaminating surface water or the ground

water system

Fire may cause the evolution of Sulphur oxides, nitrogen oxides. Hazardous combustion

products

Advice for firefighters Stay in danger area only with self-contained breathing apparatus. Prevent

skin contact by keeping a safe distance or by wearing suitable protective

clothing.

Protective Equipment Use personal protective equipment.

Specific Hazards Arising from the Chemical Has a fire-promoting effect due to the release of oxygen.

Ambient fire may liberate hazardous vapours.

#### 6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For

personal protection see section 8.

Spillage Oxidizing material. Stop leak if without risk. Avoid contact with a

combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition

sources. Call for assistance on disposal.

Personal Protection Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice

for emergency responders: Protective equipment see section 8.

**Environmental Precaution** Do not let product enter drains.

Methods and materials for Contain spillage, and then collect with non-combustible absorbent containment and cleaning material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in

container for disposal according to local / national regulations (see section

Reference to other sections For disposal see section 13.

# 7. Handling and Storage

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Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Incompatible materials Keep away from alkalis, strong oxidizing agents and metals. Provide

containment walls of adequate capacity to hold any accidental spills. Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. For

precautions see section 2.2.

Advice on safe handling Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in Conditions for safe storage, including any incompatibilities

an area accessible only to qualified or authorized persons. Moisture

sensitive.

Storage conditions Protected from light. Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature see product label.

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / Storage class

> toxic hazardous materials or hazardous materials causing chronic effects Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

Advice on general occupational hygiene Advice on safe handling Observe label precautions. Change contaminated

clothing. Wash hands after working with substance.

## 8. Exposure controls and personal protection

Specific end use(s)

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No specific additional engineering controls are required. Provide good Exposure controls natural or artificial ventilation.

**Engineering Control** Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

**Body Protection** protective clothing Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Viton® Minimum layer thickness: 0,7 mm Break through time: 480 min Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M) This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those

stated in EN374 please

Respiratory protection Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be

properly documented.

Other Protection Measure Handle in accordance with good industrial hygiene and safety practice.

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product

enter drains.

# 9. Physical and chemical properties

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Physical state Liquid Colour Colorless

Odour No data available Odor Threshold Not Applicable No data available

Melting Point

-22,0 °C

**Boiling Point** 120,0 - 122,0 °C 6 °C - closed cup Flash Point **Evaporation Rate** Not Applicable Flammability (solid, gas) No data available Explosive limits No Data Available Upper/lower flammability or explosive limits No data available Autoignition temperature No data available Decomposition temperature No data available

Vapour pressure 25,3 hPa at 25,0 °C 17,3 hPa at 20,0 °C Viscosity Viscosity, dynamic: 0,844 mPa.s at 25 °C

Density 1,62 g/cm3

Relative Density No data available

Specific Gravity No data available

Partition coefficient log Pow: 2,53 at 23 °C

Explosive properties No data available

Solubility 0,15 g/l at 25 °C

Ignition temperature No information available.
Particle characteristics No data available

# 10. Stability and reactivity

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Reactivity No data available

Chemical stability The product is chemically stable under standard ambient conditions (room

temperature).

Possibility of hazardous reactions Alkali metals Aluminum sodium amide Barium nitrogen dioxide Oxygen

with alkali hydroxides Exothermic reaction with: strong alkalis Alkaline earth metals strong alkalis Light metals Powdered metals Oxidizing agents Strong acids Strong bases nitrous gases Risk of ignition or formation of

inflammable gases or vapours with: zinc oxide with Aluminum

Conditions to avoid Heat, flames and sparks.

Incompatible materials various plastics

Hazardous decomposition products In the event of fire: see section 5

# 11. Toxicological information

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Acute toxicity LD50 Oral - Rat - male and female - 3.420 mg/kg (OECD Test Guideline

401) Remarks: (ECHA) Inhalation: No data available Dermal: No data

available

Skin corrosion/irritation Skin - Rabbit Result: Skin irritation - 4 h (OECD Test Guideli

Serious eye damage/irritation Eyes - Rabbit Result: Mild eye irritation - 24 h (Draize Test) Remarks:

(RTECS)

Respiratory or skin sensitization Local lymph node assay (LLNA) - Mouse Result: May cause sensitization

by skin contact. (OECD Test Guideline 429) Remarks: (ECHA)

Carcinogenicity Suspected of causing cancer.

Germ cell mutagenicity

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic

activation Method: OECD Test Guideline 473 Result: negative Remarks: (ECHA) Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: without metabolic activation Method: OECD Test

Guideline 471 Result: negative Remarks: (ECHA)

Reproductive toxicity No data available

Specific target organ toxicity - single exposure

No data available

Additional Information RTECS: UF9625000 Lung irritation, Cyanosis, Central nervous system depression To the best of our knowledge, the chemical, physical, and

# 12. Ecological information

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Persistence and degradability

No data available

Toxicity to fish flow-through test LC50 - Oncorhynchus mykiss (rainbow trout) - 5 mg/l -

96 h Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 7,50 mg/l - 48 h

Toxicity Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520

mg/l - 96 h

Toxicity to bacteria EC10 - Bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000

mg/l Remarks: (Lit.) (maximum permissible toxic concentration)

Toxicity to algae ErC50 - Chlamydomonas reinhardtii (green algae) - 3,64 mg/l - 72 h

Remarks: (ECHA)

Products Biodegradation The methods for determining the biological degradability are not

applicable to inorganic substances.

Mobility in soil No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties No data available
Other adverse effects No data available.

### 13. Disposal considerations

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Product See www.retrologistik.com for processes regarding the return of

chemicals and containers, or contact us there if you have further

questions.

### 14. Transport information

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UN number ADR/RID:1897 IMDG:1897 IATA: 1897

UN proper shipping name ADR/RID:TETRACHLOROETHYLENE

IMDG:TETRACHLOROETHYLENE
IATA:TETRACHLOROETHYLENE
ADR/RID: 6.1 IMDG: 6.1 IATA:6.1
ADR/RID: III IMDG: III IATA:III

Packaging group ADR/RID: III IMDG: III IATA:III
Environmental hazards ADR/RID: No IMDG: No IATA: No

Special precautions for user No data available

Further information Not classified as dangerous in the meaning of transport regulations.

# 15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the

substance or mixture Other regulations

Chemical Safety Assessment

Transport hazard class(es)

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Observe work restrictions regarding maternity protection

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

For this product a chemical safety assessment was not carried out

### 16. Other information

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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 weassume 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 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.

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