

## 1. Product and Company Identification

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Product Name TETRACHLOROETHYLENE  
Part Number RXSOL-60-6528-025

### Company Details:

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

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Website [www.rxmarine.com](http://www.rxmarine.com)

## 2. Composition / Information on ingredients

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| Product name        | Cas No   | EC No     | Weight       | Formula                        |
|---------------------|----------|-----------|--------------|--------------------------------|
| Tetrachloroethylene | 127-18-4 | 204-825-9 | 165,83 g/mol | C <sub>2</sub> Cl <sub>4</sub> |

## 3. Hazards Identification

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| Signal Word                                | Warning  |
| Hazard Statements                          | H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H411 Toxic to aquatic life with long lasting effects  |
| Precautionary statements                   | P202 Do not handle until all safety precautions have been read and understood. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308 + P313 IF exposed or concerned: Get medical advice/ attention |
| Classification of the substance or mixture | No data available  |
| Supplemental Hazard Statements             | No data available  |
| 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 | First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance     |
| If inhaled     | After inhalation fresh air. Immediately call in physician.  |
| Eye Contact    | After eye contact rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses. |
| Swallowed      | After swallowing immediately make victim drink water (two glasses at most). Consult a physician.              |

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| Skin Contact   | In case of skin contactTake off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician. |
| Inhalation   | No data available  |
| Ingestion  | No data available  |
| Most important symptoms and effects, both acute and delaye                 | The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11        |
| Indication of any immediate medical attention and special treatment needed | No data available  |

## 5. Fire-fighting Measures

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| Flammability  | No data available  |
| 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  |
| Hazardous combustion products                         | No data available  |
| 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                                  | No data available  |
| Specific Hazards Arising from the Chemical            | No data available  |

## 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  | No data available   |
| Personal Protection   | No data available   |
| Enviromental Precaution   | Do not let product enter drains. Risk of explosion.   |
| Methods and materials for containment and cleaning                  | Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.                                      |
| Reference to other sections   | For disposal see section 13.  |

## 7. Handling and Storage

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| Advice on protection against fire and explosion             | No data available  |
| Incompatible materials                                      | No data available  |
| 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   |
| Conditions for safe storage including any incompatibilities | No data available  |

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| 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                          | Storage class (TRGS 510) 6.1D Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects  |
| Specific end use(s)                    | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated   |
| Advice on general occupational hygiene | No data available  |

## 8. Exposure controls and personal protection

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| Exposure controls        | Personal protective equipment  |
| Engineering Control      | No data available  |
| 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: <a href="http://www.kcl.de">www.kcl.de</a> ). 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 pleasecontact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: <a href="http://www.kcl.de">www.kcl.de</a> ). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,4 mm Break through time: 240 min Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M) |
| Respiratory protection   | Recommended Filter type Filter A (acc. to DIN 3181) for vapours of organic compounds The entrepreneur 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 | No data available  |

## 9. Physical and chemical properties

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| Physical state                               | Liquid   |
| Colour                                       | Colorless  |
| Odour  | No data available  |
| Odor Threshold                               | No data available  |
| pH   | 14 at 100 g/l at 20 °C   |
| Melting Point                                | -22,0 °C   |
| Boiling Point                                | 120,0 - 122,0 °C   |
| Flash Point                                  | No data available  |
| Evaporation Rate                             | No data available  |
| Flammability (solid, gas)                    | No data available  |
| Explosive limits                             | No data Available  |
| Upper/lower flammability or explosive limits | Upper explosion limit 20,8 %(V) Lower explosion limit 4,9 %(V) |
| 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                | Dynamic 0,844 mPa.s at 25 °C                            |
| Density                  | 1,62 g/cm <sup>3</sup>                                  |
| Relative Density         | No data available                                       |
| Specific Gravity         | No data available                                       |
| Partition coefficient    | Log Pow2,53 at 23 °C - Bioaccumulation is not expected. |
| Explosive properties     | No data available                                       |
| Solubility               | 0,15 g/l at 25 °C                                       |
| Ignition temperature     | No data 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 | Risk of explosion with 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                | No data available   |
| 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) (ECHA)  |
| Skin corrosion/irritation                        | Skin - Rabbit Skin irritation - 4 h (OECD Test Guideline 404) (ECHA)  |
| Serious eye damage/irritation                    | Eyes - Rabbit Mild eye irritation - 24 h (Draize Test) (RTECS)  |
| Respiratory or skin sensitization                | Local lymph node assay (LLNA) - Mouse May cause sensitization by skin contact. (OECD Test Guideline 429) (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) Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal Method: OECD Test Guideline 474 Result: negative Remarks: (ECHA) |
| Reproductive toxicity                            | No data available   |
| Specific target organ toxicity - single exposure | May cause drowsiness or dizziness.  |
| Additional Information                           | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Repeated dose toxicity - Mouse - female - Oral - LOAEL (Lowest observed adverse effect level) - 390 mg/kg narcosis, Liver injury may occur., Kidney injury may occur.   |

## 12. Ecological information

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| Persistence and degradability | Biodegradability aerobic - Exposure time 28 d 11 % - Not readily |
|-------------------------------|--|

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| Toxicity to fish                                    | biodegradable. (OECD Test Guideline 301C)<br>Flow-through test LC50 - <i>Oncorhynchus mykiss</i> (rainbow trout) - 5 mg/l - 96 h (ECHA)  |
| Toxicity to daphnia and other aquatic invertebrates | EC50 - <i>Daphnia magna</i> (Water flea) - 7,50 mg/l - 48 h  |
| Toxicity  | No data available  |
| Toxicity to bacteria                                | No data available  |
| Toxicity to algae                                   | No data available  |
| Bioaccumulation Potential                           | Bioaccumulation <i>Lepomis macrochirus</i> (Bluegill) - 21 d - 0,00343 mg/l(Tetrachlorethylene) Bioconcentration factor (BCF): 49  |
| 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                     | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher |
| Other adverse effects                               | No data available  |

### 13. Disposal considerations

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|------------------------|---|
| Product                | See <a href="http://www.retrologistik.com">www.retrologistik.com</a> for processes regarding the return of chemicals and containers, or contact us there if you have further questions. |
| Contaminated packaging | No data available   |
| Waste treatment Method | No data available   |

### 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 |
| Transport hazard class(es)   | ADR/RID:6.1                 | IMDG:6.1                 | IATA:6.1                 |
| Packaging group              | ADR/RID:III                 | IMDG:III                 | IATA:III                 |
| Environmental hazards        | ADR/RID:Yes                 | IMDG:Yes                 | IATA:No                  |
| Special precautions for user | Tunnel restriction code (E) |                          |                          |
| Further information          | No data available           |                          |                          |

### 15. Regulatory information

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| Safety, health and environmental regulations/legislation specific for the substance or mixture | This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.  |
| Other regulations  | 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. |
| Chemical Safety Assessment   | A Chemical Safety Assessment has been carried out for this substance.   |

### 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 we assume no liability resulting |
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