# 1. Product and Company Identifaction

www.rxmarine.com

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

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

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 :::AOH :0091 9821214367

 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

# 2. Composition / Information on ingredients

www.rxmarine.com

Product name Cas No EC No Weight Formula Tetrachloroethylene 127-18-4 204-825-9 165,83 g/mol  $C_2Cl_4$ 

## 3. Hazards Identification

www.rxmarine.com

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

Eye Contact

www.rxmarine.com

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.

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.

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

www.rxmarine.com

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

No data available

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 No data available
Specific Hazards Arising from the Chemical No data available

#### 6. Accidental Release Measures

www.rxmarine.com

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

Environmental Precaution Do not let product enter drains. Risk of explosion.

Methods and materials for Cover drains. Collect, bind, and pump off spills. Observe possible containment and cleaning 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

www.rxmarine.com

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

Protected from light. Tightly closed. Keep in a well-ventilated place. Keep Storage conditions

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

Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

No data available Advice on general occupational hygiene

### 8. Exposure controls and personal protection

Specific end use(s)

www.rxmarine.com

Personal protective equipment Exposure controls

**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: 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 pleasecontact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). 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 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 No data available

# 9. Physical and chemical properties

pН

www.rxmarine.com

Physical state Liquid Colour Colorless

Odour No data available Odor Threshold No data available 14 at 100 g/l at 20 °C

-22,0 °C Melting Point

**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 explosion limit 20,8 %(V) Lower explosion limit 4,9 %(V) Upper/lower flammability or explosive limits

Autoignition temperature No data available No data available Decomposition temperature

25,3 hPa at 25,0 °C 17,3 hPa at 20,0 °C Vapour pressure

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 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

www.rxmarine.com

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

www.rxmarine.com

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)

No data available

May cause drowsiness or dizziness.

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

Specific target organ toxicity - single exposure

www.rxmarine.com

Persistence and degradability

Reproductive toxicity

Additional Information

Biodegradability aerobic - Exposure time 28 d 11 % - Not readily

biodegradable. (OECD Test Guideline 301C)

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

96 h (ECHA)

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (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 Lepomis macrochirus (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

www.rxmarine.com

Product See www.retrologistik.com 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

www.rxmarine.com

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

UN proper shipping name ADR/RID:TETRACHLOROETHY IMDG:TETRACHLOROETHYLE IATA:TETRACHLOROETHYLEN

LENE NE

Transport hazard class(es) ADR/RID:6.1 IMDG:6.1 IATA:6.1

Packaging group ADR/RID:lll IMDG:lll IATA:lll

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

www.rxmarine.com

Safety, health and environmental regulations/legislation specific for the

substance or mixture

Other regulations

Chemical Safety Assessment

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

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.

A Chemical Safety Assessment has been carried out for this substance.

#### 16. Other information

www.rxmarine.com

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.

DISCLAIMER OF LIABILITY: The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.