

|              |   |   |
|--------------|---|---|
| Product Name | : | Toluene Lab Grade 2.5 Ltrs 5 Ltr Bottle |
| Part Number  | : | RXSOL-20-1202-002                       |

Company Details:

RX MARINE INTERNATIONAL

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|                       |            |           |       |        |         |          |
|-----------------------|------------|-----------|-------|--------|---------|----------|
| Name of Substance     | Cas Number | EINECS No | Wt. % | Symbol | Toluene | 108-88-3 |
| 203-625-9 100% Xi, Xn |            |           |       |        |         |          |

|             |        |                   |  |
|-------------|--------|-------------------|--|
| Signal Word | Danger | Hazard Statements | H225 Highly flammable liquid and vapour. |
|-------------|--------|-------------------|--|

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary statements - prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P240 Ground/bond container and receiving equipment.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P314 Get medical advice/ attention if you feel unwell.

Storage

Precautionary statements - response P403 + P233 Store in a well-ventilated place. Keep container tightly closed. According to the

criteria, the general hazard statement can be replaced by the hazard statement

indicating only the property of concern, where either fertility or developmental effects are proven to be not relevant. See Annex VI, 1.2.3, General hazard statement not specifying the route of exposure as the necessary information is not available. See Annex VI, 1.2.2. Get medical attention/advice if you feel unwell

|  |                               |   |  |
|--|-------------------------------|---|--|
| After Inhalation   | Fresh air. Call in physician. | Skin contact  | Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.  |
|  | Eye contact                   | Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.   | After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Call a physician immediately. Pulmonary failure possible after aspiration of vomit. |
| Most important symptoms and effects, both acute and delayed                |                               | Irritant effects, Headache, Drowsiness, Dizziness, Nausea, Vomiting, inebriation, Convulsions, somnolence, Circulatory collapse, CNS disorders, respiratory paralysis, respiratory arrest, Unconsciousness, death |  |
| Indication of any immediate medical attention and special treatment needed |                               | No information available.   |  |

|   |  |   |  |
|---|--|---|--|
| Suitable extinguishing media  | Foam, Carbon dioxide (CO2), Dry powder.  | Unsuitable extinguishing media                        | For this substance/mixture no limitations of extinguishing agents are given. |
| Pay attention to flashback.   |  | Special hazards arising from the substance or mixture |  |
| Vapours are heavier than air and may spread along floors.   |  | Combustible.  |  |
| Development of hazardous combustion gases or vapours possible in the event of fire.   |  |   |  |
| Forms explosive mixtures with air at ambient temperatures.  | Advice for firefighters  | Special protective equipment 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. |  |   |  |
| Further information   | Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system. |   |  |

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

|                                     |                           |   |         |
|-------------------------------------|---------------------------|---|---------|
| Protective equipment see section 8. | Environmental precautions | Do not let product enter drains. Risk of explosion. | Methods |
|-------------------------------------|---------------------------|---|---------|

and materials for containment and cleaning up      Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

Reference to other sections      Indications about waste treatment see section 13.

#### Advice on safe handling

Observe label precautions. Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

#### Hygiene measures

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

#### Conditions for safe storage, including any incompatibilities

##### Storage conditions

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

Recommended storage temperature see product label.

#### Specific end use(s)

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

#### Hand protection

Glove material: Viton (R)

Glove thickness: 0.70 mm

Break through time: > 480 min splash contact:

Glove material: Viton (R)

Glove thickness: 0.70 mm

Break through time:> 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 890 Vitoject® (full contact), KCL 890 Vitoject® (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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](http://www.kcl.de)).

Other protective equipment

Flame retardant antistatic protective clothing.

Respiratory protection

Required when vapours/aerosols are generated.

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.

Environmental exposure controls Do not let product enter drains.

Risk of explosion.

|                                |                                      |  |                  |                           |                           |                |                      |
|--------------------------------|--------------------------------------|--|------------------|---------------------------|---------------------------|----------------|----------------------|
| Form                           | Liquid                               | Colour   | Colourless       | Odour                     | Characteristic            | Odor Threshold | 0.2 - 68.6 ppm       |
| pH                             | Not Applicable                       | Melting Point  | -95 °C           | Boiling Point             | 110.6 °C at 1,013 hPa     | Flash Point    | 4 °C at              |
| 1,013 hPa Method: c.c.         | Evaporation Rate                     | No information available.                                |                  | Flammability (solid, gas) | No information available. |                |                      |
| Explosive limits               | Lower explosion limit 1.1 %(V)       |  |                  |                           |                           |                |                      |
| Upper explosion limit 7.1 %(V) | Vapour pressure                      | 29 hPa at 20 °C  | Vapour Density   | 3.18                      | Density                   | 0.87 g/cm3     |                      |
| at 20 °C                       | Relative density                     | No information available.                                | Water solubility | 0.52 g/l at 20 °C         | Partition coefficient:    |                |                      |
| n-octanol/water                | log Pow: 2.65(experimental) (IUCLID) | Bioaccumulation is not expected.                         |                  |                           | Auto-ignition temperature | No information |                      |
| available.                     | Decomposition temperature            | Distillable in an undecomposed state at normal pressure. |                  |                           | Viscosity, dynamic        | 0.6            |                      |
| mPa.sat 20 °C                  | Explosive properties                 | Not classified as explosive.                             |                  |                           | Oxidizing properties      | None           | Ignition temperature |
| 535 °C Method: DIN 51794       | Viscosity, kinematic                 | 0.7 mm2/s at 20 °C                                       | Conductivity     |                           |                           |                |                      |

Hazardous Polymerization: No

Condition To Avoid Polymerization : NA

Stability : Stable

Condition To Avoid Instability : NA

Materials and Conditions To Avoid: Strong Oxidizing agents

Hazardous Decomposition Products : None

Acute oral toxicity

LD50 Rat: 5,580 mg/kg. Tested according to Directive 92/69/EEC.

Symptoms

Nausea, Vomiting

Acute inhalation toxicity

LC50 Rat: 25.7 mg/l; 4 h ; vapour OECD Test Guideline 403

Symptoms

Irritation symptoms in the respiratory tract. Absorption.

Acute dermal toxicity      LD50 Rabbit: 12,124 mg/kg      Skin irritation      Rabbit

Result: irritating

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.Causes skin irritation.

Eye irritation      Rabbit

Result: No eye irritation (ECHA)

Sensitisation :This information is not available.Germ cell mutagenicity Genotoxicity in vivo      Chromosome aberration test      Rat (i.p.)

Bone marrow Result: negative (ECHA) Genotoxicity in vitro In vitro mammalian cell gene mutation test

Mouse lymphoma test

Result: negative Method: OECD Test Guideline 476      Ames test      Result: negative      Carcinogenicity      This information is not

available.      Reproductive toxicity      This information is not available.      Teratogenicity      This information is not available.

CMR effects Teratogenicity:      Suspected of damaging the unborn child. Specific target organ toxicity - single exposure May cause drowsiness or  
dizziness.Target Organs: Central nervous system      Specific target organ toxicity      Repeated exposure May cause damage to organs

through prolonged or repeated exposure.      Target Organs:      Central nervous system Aspiration hazard :

Aspiration hazard, Aspiration may cause pulmonary oedema and pneumonitis.      Further Information

Systemic effects: After absorption of large quantities: Headache, Vomiting, Nausea, Dizziness, CNS disorders, inebriation, Convulsions,  
Circulatory collapse, respiratory paralysis, respiratory arrest, Unconsciousness, death.Other dangerous properties can not be excluded. This  
substance should be handled with particular care.

Toxicity    to fish

LC50 Oncorhynchus mykiss (rainbow trout): 5.8 mg/l; 96 h (ECOTOX Database)

Toxicity to daphnia and other aquatic invertebrates

EC50 Daphnia magna (Water flea): 6 mg/l; 48 h  
(ECOTOX Database) NOEC E.sulcatum: 456 mg/l; 72 h (IUCLID)

Toxicity to algae

IC50 Pseudokirchneriella subcapitata (green algae): 12 mg/l; 72 h (Lit.)

Toxicity to bacteria      EC50 Photobacterium phosphoreum: 20 mg/l; 30 min (Lit.)      Biodegradability      69 - 81 %; 5 d; aerobic  
APHA NO. 219 (ECHA) Readily biodegradable      Theoretical oxygen demand (ThOD)      3,130 mg/g (Lit.)      Bioaccumulative potential  
Partition coefficient: n-octanol/water log Pow: 2.65 (experimental) (IUCLID) Bioaccumulation is not expected.      Mobility in soil

Distribution among environmental compartments Adsorption/Soil log Koc: 2.15 (experimental)

Moderately mobile in soils (Lit.) Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted. Other adverse effects Henry constant 683 Pa\*m<sup>3</sup>/mol (Lit.) Distribution preferentially in air. Discharge into the environment must be avoided.

Waste treatmentMethods Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

#### Land transport (ADR/RID)

|                                 |              |                              |         |                         |   |               |
|---------------------------------|--------------|------------------------------|---------|-------------------------|---|---------------|
| UN number                       | UN 1294      | Proper shipping name         | TOLUENE | Class                   | 3 | Packing group |
| II Environmentally hazardous    | --           | Special precautions for user | yes     | Tunnel restriction code |   | D/E           |
| Inland waterway transport (ADN) | Not relevant |                              |         |                         |   |               |

#### Air transport (IATA)

|                              |         |                              |         |       |   |               |
|------------------------------|---------|------------------------------|---------|-------|---|---------------|
| UN number                    | UN 1294 | Proper shipping name         | TOLUENE | Class | 3 | Packing group |
| II Environmentally hazardous | --      | Special precautions for user | yes     |       |   |               |

#### Sea transport (IMDG)

|                              |              |                              |         |  |   |               |
|------------------------------|--------------|------------------------------|---------|--|---|---------------|
| UN number                    | UN 1294      | Proper shipping name         | TOLUENE | Class  | 3 | Packing group |
| II Environmentally hazardous | --           | Special precautions for user | yes     | Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code |   |               |
|                              | Not relevant |                              |         |  |   |               |

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

|                      |               |                            |  |
|----------------------|---------------|----------------------------|--|
| National legislation | Storage class | Chemical safety assessment | For this product a chemical safety assessment was not carried out. |
|----------------------|---------------|----------------------------|--|

#### 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 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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