

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 (CO ₂), Dry powder.	Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.	Special hazards arising from the substance or mixture	Combustible.
Pay attention to flashback.					
Vapours are heavier than air and may spread along floors.					
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
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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).

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.
Explosive limits	Lower explosion limit 1.1 %(V)	Evaporation Rate	No information available.	Flammability (solid, gas)	No information available.		
Upper explosion limit 7.1 %(V) at 20 °C	Vapour pressure 29 hPa at 20 °C	Vapour Density	3.18	Density	0.87 g/cm3		
n-octanol/water available.	Relative density	No information available.	Water solubility	0.52 g/l at 20 °C	Partition coefficient:		
535 °C Method: DIN 51794	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
	Explosive properties	Not classified as explosive.	Oxidizing properties	None	Ignition temperature		
	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*m³/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 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.
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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 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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