

Material Safety Data Sheet

Hand Liquid Disinfectant Antiseptic (RXSOL-14-1001-005)



1. Product and Company Identification

Product Name Hand Liquid Disinfectant Antiseptic

Part Number RXSOL-14-1001-005

Company Details:....

RX MARINE INTERNATIONAL
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2. Composition / information on ingredients

Chemical Name	Cas No	EC No	Whight	Formula
(±)-Propylene oxide	75-56-9	200-879-2	58,08 g/mol	C3H6O

3. Hazards Identification

Signal Word Danger

Hazard Statements H224 Extremely flammable liquid and vapor. H302 Harmful if swallowed. H311 + H331 Toxic in contact with skin or if inhaled. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H340 May cause genetic defects. H350 May cause cancer.

Precautionary statements) P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P308 + P313 IF exposed or concerned: Get medical advice/ attention. P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Supplemental Hazard Statements None

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

General advice Consult a physician. Show this material safety data sheet to the doctor in attendance. 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. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

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. Call a physician immediately.

Inhalation No data available

Ingestion	No data available
Most important symptoms and effects, both acute and delay	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

Suitable extinguishing media	Carbon dioxide (CO2) Foam Dry powder
Unsuitable extinguishing media	For this substance/mixture no limitations of extinguishing agents are given.
Special hazards arising from the substance or mixture	Carbon oxides Combustible. Pay attention to flashback. Vapors 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.
Further information	Remove container from danger zone and cool with water. 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

Personal precautions, protective equipment and emergency procedures	Advice for non-emergency personnel: Do not breathe vapors, 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. For personal protection see section 8.
Spillage	No data available
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. 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 carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.
Reference to other sections	For disposal see section 13.

7. Handling and Storage

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. 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	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Moisture sensitive.
Storage conditions	Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Keep locked up or in an area accessible only to qualified or authorized persons.
Storage class	Storage class (TRGS 510): 3: Flammable liquids
Specific end use(s)	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

Exposure controls	Personal protective equipment
Control parameters	Ingredients with workplace control parameters
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	Flame retardant antistatic 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 EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: butyl-rubber Minimum layer thickness: 0,7 mm Break through time: 30 min Material tested: Butoject® (KCL 898)
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
Other Protection Measure	Handle in accordance with good industrial hygiene and safety practice.
Control of environmental exposure	Do not let product enter drains. Risk of explosion.

9. Physical and chemical properties

Physical state	Clear, Liquid
Colour	Colorless
Odour	sweet, ether-like
Odor Threshold	Not Applicable
pH	No data available
Melting Point	-112 °C - lit
Boiling Point	34 °C - lit.
Flash Point	-38 °C - Equilibrium method - closed cup
Evaporation Rate	Not Applicable
Flammability (solid, gas)	No data available
Explosive limits	No Data Available
Upper/lower flammability or explosive limits	Upper explosion limit: 36 - 45 %(V) Lower explosion limit: 1,9 %(V)
Autoignition temperature	> 400 °C at 1.005 - 1.018 hPa - Tested according to Directive 92/69/EEC.
Decomposition temperature	No data available
Vapour pressure	2.028,5 hPa at 55 °C
Viscosity	Viscosity, kinematic: 0,44 mm ² /s at 0 °C - OECD Test Guideline 1140,37 mm ² /s at 20 °C - OECD Test Guideline 114 Viscosity, dynamic: 0,32 mPa.s at 20 °C
Density	0,83 g/mL at 25 °C - lit.
Relative Density	2,01 - (Air = 1.0)
Specific Gravity	No data available
Partition coefficient	log Pow: 1 at 20 °C - Bioaccumulation is not expected.
Explosive properties	No data available
Solubility	No data available
Ignition temperature	No information available.
Particle characteristics	No data available

10. Stability and reactivity

Reactivity	Vapors may form explosive mixture with air.
Chemical stability	The product is chemically stable under standard ambient conditions (room temperature)
Possibility of hazardous reactions	Risk of ignition or formation of inflammable gases or vapours with: Hydrogen fluoride Oxidizing agents Nitric acid Risk of explosion with: polymerisation initiators Oxygen Exothermic reaction with: Strong oxidizing agents Ammonia halogens alkali hydroxides polymerization alkalines Amines metallic oxides metallic chlorides chlorosulfonic acid Hydrogen chloride gas fuming sulfuric acid aluminium chloride acids
Conditions to avoid	Heat. Warming.
Incompatible materials	No data available
Hazardous decomposition products	In the event of fire: see section 5

11. Toxicological information

Acute toxicity	LD50 Oral - Rat - male and female - 382 - 587 mg/kg (OECD Test Guideline 401) Acute toxicity estimate Oral - 382 mg/kg (ATE value derived from LD50/LC50 value) LC50 Inhalation - Rat - male and female - 4 h - 9,95 mg/l - vapor (OECD Test Guideline 403) Acute toxicity estimate Inhalation - 9,95 mg/l - vapor
Skin corrosion/irritation	Skin - Rabbit Result: No skin irritation - 4 h (OECD Test Guideline 404)
Serious eye damage/irritation	Eyes - Rabbit Result: Severe irritations (Draize Test) Remarks: (RTECS) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Respiratory or skin sensitization	Split adjuvant test - Guinea pig Result: negative Remarks: (ECHA
Carcinogenicity	Presumed to have carcinogenic potential for humans
Germ cell mutagenicity	May cause genetic defects. Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: without metabolic activation Method: OECD Test Guideline 476 Result: positive Test Type: Mutagenicity (mammal cell test): chromosome aberration. Metabolic activation: without metabolic activation Method: OECD Test Guideline 473 Result: positive
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	Inhalation - May cause respiratory irritation. - Respiratory system Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
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.

12. Ecological information

Persistence and degradability	No data available
Toxicity to fish	EC50 - Poecilia reticulata (guppy) - 31,9 mg/l - 14 d
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 350 mg/l - 48 h (US-EPA)
Toxicity	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 52 mg/l - 96 h (US-EPA)
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	static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 240 mg/l - 96 h (US-EPA)
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

Product	No data available
Contaminated packaging	No data available
Waste treatment Method	No data available.

14. Transport information

UN number	ADR/RID:1280	IMDG:1280	IATA:1280
	ADR/RID: PROPYLENE OXIDE		
UN proper shipping name	IMDG: PROPYLENE OXIDE		
	IATA: Propylene oxide		
Transport hazard class(es)	ADR/RID: 3	IMDG: 3	IATA:3
Packaging group	ADR/RID: I	IMDG:I	IATA:I
Environmental hazards	ADR/RID: No	IMDG:No	IATA: No
Special precautions for user	No data available		
Further information	No data available		

15. Regulatory information

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.
Authorisations and/or restrictions on use	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : propylene oxide REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)
National legislation	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Other regulations	Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances..
Chemical Safety Assessment	For this product a chemical safety assessment was not carried out

16. 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 we 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.

Other Information

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