

# Hand Liquid Disinfectant Antiseptic

Part No. RXSOL-14-1001-005 — Generated 28 Sep 2026

## 1. Product and Company Identification

|              |                                     |
|--------------|-------------------------------------|
| Product Name | Hand Liquid Disinfectant Antiseptic |
| Part Number  | RXSOL-14-1001-005                   |

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   | <a href="mailto:mail@rxmarine.com">mail@rxmarine.com</a> |
| Website | <a href="http://www.rxmarine.com">www.rxmarine.com</a>   |

## 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 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

|                                                       |                                                                                                                                                                                                                                                                |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                            |
| 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 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: <a href="http://www.kcl.de">www.kcl.de</a> ). 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)<br>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 <sup>2</sup> /s at 0 °C - OECD Test Guideline 1140,37 mm <sup>2</sup> /s at 20 °C - OECD Test Guideline 114<br>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

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|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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