

**Hand Sanitizer (IPA/Glycerol/H2O2)****1. PRODUCT AND COMPANY IDENTIFICATION****1.1 Product identifiers**

Product name : Hand Sanitizer (IPA/Glycerol/H2O2)  
Product Number : HST  
Brand : R & M

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses : Laboratory chemicals, Manufacture of substances

**1.3 Details of the supplier of the safety data sheet**

Company : Evergreen Engineering & Resources  
18G, Jalan Semenyih Sentral 2,  
Semenyih Sentral, Semenyih, 43500, Selangor Darul Ehsan  
Telephone : 603-87244168  
Fax : 603-87244158

**1.4 Emergency telephone number**

Emergency Phone # : 603 87244158

**2. HAZARDS IDENTIFICATION****Emergency overview**

Do not breathe vapor or mist. Contains material that may cause target organ damage, based on animal data.

**NOTE: SDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.**

**Acute Effects**

**Eyes** Direct contact may cause irritation and redness. Inflammation of the eye is characterized by redness, watering and itching. Prolonged contact with eye tissue may cause severe and permanent eye injury (blindness).

**Skin** May cause slight irritation in sensitive individuals.

**Inhalation** Over-exposure by inhalation may cause respiratory irritation. Long-term exposure may cause headache, nausea or weakness.

**Ingestion** Harmful if swallowed. Moderately toxic and narcotic in high concentrations. Ingestion of excessive amounts may cause inebriation, headache, drowsiness, dizziness, mental confusion, fatigue or nausea.

**Routes of Entry** Eye contact. Inhalation.

**Chronic effects** Contains material which may cause damage to the following organs: kidneys, liver, ears.

Prolonged or repeated contact may dry skin and cause irritation. Over-exposure by inhalation may cause respiratory irritation.

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Content: Iso-Propyl Alcohol , Glycerol & Hydrogen Peroxide

**Hand Sanitizer (IPA/Glycerol/H2O2)****4. FIRST AID MEASURES**

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

**Skin Contact** This product is formulated for use on skin but should be rinsed off when possible.

**Inhalation** Inhalation not likely under normal use conditions. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe.

**Ingestion** If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person.

**5. FIREFIGHTING MEASURES**

**Flash Point** 77° C

**Flammable Limits** Not available.

**Flammability** Flammable in presence of open flames, sparks, shocks, heat, oxidizing materials, and strong acids,

**Auto-ignition Temperature** 399° C

**Fire-Fighting Procedures** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

**Fire hazard** In a fire or if heated, a pressure increase will occur and the container may burst.

**Products of Combustion** carbon oxides (CO, CO<sub>2</sub>)

**Explosion hazard** Not available.

**6. ACCIDENTAL RELEASE MEASURES**

**Spill Clean up** Eliminate all ignition sources. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**7. HANDLING AND STORAGE**

**Handling** Do not breathe vapor or mist. Do not ingest. No special precautions are necessary if used as intended. Wash thoroughly after handling.

**Storage** Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Avoid all possible sources of ignition (spark or flame). Keep out of the reach of children.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure limits**

**ACGIH TLV (United States).**

TWA: 200 ppm 8 hour(s).

**OSHA PEL (United States).**

TWA: 400 ppm 8 hour(s).

**ACGIH/OSHA (United States).**

STEL: 400 ppm 15 minute(s).

### Hand Sanitizer (IPA/Glycerol/H2O2)

**Personal Protective Equipment (PPE)**

**Eyes Recommended:** No special protection is required. Avoid contact with eyes.

**Hands and Body Recommended:** No special protective clothing is required.

**Respiratory Recommended:** A respirator is not needed under normal and intended conditions of product use. Use with adequate ventilation.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State Liquid. [Clear Gel]

pH 6.0 (1% solution).

Boiling Point 77°C (170.6°F)

Specific Gravity 0.84

Solubility Easily soluble in the following materials: cold water and hot water.

Color Colorless.

Odor Alcohol-like. [Slight]

Vapor Pressure 0.8 kPa (6 mm Hg)

Vapor Density 2.08 [Air = 1]

Evaporation Rate Not determined.

VOC (Consumer) Not Available

**10. STABILITY AND REACTIVITY**

**Stability and Reactivity** The product is stable

**Incompatibility** Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

**Hazardous Polymerization** Will not occur

**Hazardous Decomposition Products** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**11. TOXICOLOGICAL INFORMATION**

**Carcinogenicity** Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

**Acute Toxicity**

| Product/ingredient name | Result                | Species | Dose       | Exposure |
|-------------------------|-----------------------|---------|------------|----------|
| Isopropyl alcohol       | LC50 Inhalation Vapor | Rat     | 16000 ppm  | 4 hours  |
|                         | LD50 Dermal           | Rabbit  | 5030 mg/kg | -        |
|                         | LD50 Oral             | Rat     | 5000 mg/kg | -        |
|                         | LD50 Oral             | Rat     | 5045 mg/kg | -        |

**12. ECOLOGICAL INFORMATION**

**Environmental Effects** No known significant effects or critical hazards.

**Aquatic Ecotoxicity** Not available.

**13. DISPOSAL CONSIDERATIONS**
**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

**Waste Stream** Code: - [None.]

Classification: - [Non-hazardous waste]

**Hand Sanitizer (IPA/Glycerol/H2O2)****14. TRANSPORT INFORMATION**

| <b>Regulatory information</b> | <b>UN number</b> | <b>Proper shipping name</b>                | <b>Classes</b> | <b>PG*</b> | <b>Additional information</b> |
|-------------------------------|------------------|--|----------------|------------|-------------------------------|
| <b>TDG Classification</b>     | 1993             | FLAMMABLE LIQUIDS,<br>N.O.S. (ISOPROPANOL) | 3              | II         | -                             |
| <b>IMDG Class</b>             | Not available.   | Not available.                             | Not available. | -          | -                             |

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

**15. REGULATORY INFORMATION****Canada**

**WHMIS (Canada)** Regulated under other Act

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

**16. OTHER INFORMATION**

**USERS RESPONSIBILITY :** This SDS provides environmental, health and safety information. This product is to be used in applications consistent with our product literature and container label. Individuals handling this product should be informed to the recommended safety precautions and have access to this SDS.