

MATERIAL SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

GHS product identifier: ROYCE-1000

Recommended use of the chemical and restrictions on use:

- Recommended use: Multi purpose cleaner
- Restrictions on use:

Supplier identifier:

-Supplier information

- Supplier name: Humantech Corporation
- Address: 701 SAMSUNG IT VALLEY GURO-3DONG, GURO-GU, SEOUL, KOREA
- Emergency phone number: 82-2-2022-3584
 - Tel: 82-2-2022-3584

2. Hazards identification

GHS classification of the substance/mixture:

- Serious eye damage/eye irritation

GHS label elements, including precautionary statements:

- Pictogram and symbol:



- Signal word: Warnig
- Hazard statements:
 - H319 Occure irritation for the eyes
- Precautionary statements:
 - Precaution:
 - P264 Wash hand thourghtly after treatment.
 - P280 Wear safeguard for eyes or face.
 - Treatment:
 - P337+P313 If eye irritation persists, get medical attention.
 - P305+P351+P338 If eye coat, carefully wash eye for a few minute. If possible remove contact lens. Again and again wash.
 - Storage:
 - Disposal:
 - P501 Waste must be disposed of in accordance with federal, state and local environmental control regulations.

NFPA:

- Health: Flammability: Reactivity: Not available

3. Composition/information on ingredients

Chemical Name	Common Name Synonyms	CAS number	Content (%)
Water 3-methoxy-3-methyl-1-butanol Secret-1 Secret-2	<ul style="list-style-type: none">• 7732-18-5• 56539-66-3• Secret-1• Secret-2	<ul style="list-style-type: none">• 7732-18-5• 56539-66-3• Secret-1• Secret-2	80~90% 1~10% 1~10% 1~10%

4. First aid measures

Eye contact:

- Rinse with plenty of running water. Get medical attention if symptom occur.

Skin contact:

- In case of contact, immediately flush skin with plenty of water. Wash clothing before reuse.
- Get medical attention if symptom occur.

Inhalation:

- Remove to fresh air. Get medical attention if symptoms occur

Ingestion:

- Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water.
- Contact a doctor

Indication of immediate medical attention and notes for physician:

- No specific treatment. Treat symptomatically

5. Fire fighting measures

Suitable (and unsuitable) extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Specific hazards arising from the chemical (ex: hazardous combustion products):

- Not available

Special protective equipment and precautions for fire-fighters:

- Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus with a full face-piece operated in positive pressure.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

- Immediately contact emergency personnel.
- Keep unnecessary personnel away. Use suitable protective equipment

Environmental precautions and protective procedures:

- Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
- Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air)

The methods of purification and removal:

- Stop leak if without risk. Move container from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulation (see section 13)
- Dispose of via a licensed for disposal contractor. Note: see section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling:

- Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Conditions for safe storage (include conditions to avoid):

- Keep container tightly closed. Keep container in a cool, well-ventilated area.
- Keep away from incompatibles, such as strong oxidizing material, strong acid.

8. Exposure controls/personal protection

Occupational Exposure limits:

- Korean Occupation of Safety and Health Regulation: Not available.
- ACGIH: Not available.
- OSHA: Not available.
- NIOSH: Not available.
- Biological exposure index : Not available.
- EU Regulation: Not available.

Appropriate engineering controls:

- No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

- Respiratory protection: A respirator is not needed under normal and intended conditions of product use.
- Eye protection: Recommended : Safety glasses.
- Hand protection: Recommended : PVC gloves.

- Body protection: No special protective clothing is required.

9. Physical and chemical properties

Appearance: Transparent liquid

Odor: Lemon flavoring

Odor threshold: Not available.

pH: 7.5 ± 0.5

Melting point/freezing point: Not available.

Initial boiling point and boiling range: Not available.

Flash point: Not available.

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Upper/lower flammability or explosive limits: Not available.

Vapor pressure: Not available.

Vapor density: Not available.

Solubility (ies): Not available.

Specific gravity: 1.01

Partition coefficient: n-octanol/water: Not available

Auto ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not available.

Molecular weight: Not available.

10. Stability and reactivity

Chemical stability and Possibility of hazardous reactions: This product is stable under normal ambient conditions of temperature and pressure.

Conditions to avoid (e.g., static discharge, shock or vibration): Non identified.

Incompatible materials: Not available.

Hazardous decomposition products: Decomposition products may include the following material

: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides

11. Toxicological information

Information of Health Hazardous:

- Acute toxicity:
 - Oral: Not available.
 - Dermal: Not available.
 - Inhalation: Not available.
- Skin Corrosion/ Irritation: Not available.
- Serious Eye Damage/ Irritation: Slightly irritating to the eyes.
- Respiratory sensitization: Not available.
- Skin Sensitization: Slightly skin sensitization to the skin.
- Carcinogenicity:
-IARC, ACGIH, NTP, OSHA, EU Regulation 1272/2008, US EPA:
No known significant effects or critical hazard.
- Mutagenicity: No known significant effects or critical hazards.
- Reproductive toxicity: No known significant effects or critical hazard.
- Specific target organ toxicity (single exposure): Not known significant effects or critical hazards.
- Specific target organ toxicity (repeat exposure): Not known significant effects or critical hazards.
- Aspiration Hazard: Not known significant effects or critical hazards.

12. Ecological information

Ecological toxicity:

- Acute toxicity: Not available
- Chronic toxicity: Not available

Persistence and degradability:

- Persistence: Not available
- Degradability: Not available

Bioaccumulative potential:

- Bioaccumulation: Not available
- Biodegradation: Not available

Mobility in soil: Not available

13. Disposal considerations

Disposal method

- Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Disposal precaution

- Consider the require attentions in accordance with waste treatment management regulation.

14. Transport information

UN Number: Not regulated.

UN Proper shipping name: Not regulated.

Transport Hazard class: Not regulated.

Packing group: Not regulated.

Marine pollutant: Not regulated.

Special precautions:

- In case of fire: See section 5
- In case of leakage: See section 8

15. Regulatory information**Korea:**

- Occupational Safety and Health Regulation:
- Toxic Chemical Control Act:
- Dangerous Material Safety Management Regulation:
- Wastes Control Act:

EU classification:

- Classification: Not available
- Risk phrases: Not available
- Safety phrases: Not available

U.S.A management information

- **OSHA** (29CFR1910.119) : Not available
- **CERCLA 103** (40CFR302.4): Not available
- **EPCRA 302** (40CFR355.3): Not available
- **EPCRA 304** (40CFR355.4): Not available
- **EPCRA 313** (40CFR372.65): Not available

Substance of Roterdame Protocol: Not available

Substance of Stockholme Protocol: Not available

Substance of Montreal Protocol: Not available

16. Other information

Information source and references:

- Material safety data substance in Korea

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