

Safety Data Sheet

(안전 보건 자료)

1. PRODUCT AND COMPANY IDENTIFICATION

- 1) Product Name : LAVENDER HAND SANITIZER
 2) Use : Apply to the hand
 3) Company : THURINGEN KOREA. CO., LTD.
 79, Yuram-ro, Dong-gu, Daegu, Republic of Korea
 4) TEL : +82-53-965-6363
 5) FAX : +82-53-965-3989

2. HAZARDS IDENTIFICATION

-GHS Classification

Flammable liquids : Category 3
 Eye irritation : Category 2B

-GHS Label element

Hazard pictograms :



Signal word : Warning

Hazard Statements : Flammable liquid and vapor

Causes eye irritation

Precautionary Statements

: Prevetion :

Keep away from heat/sparks/open flames/hot surfaces.-No smoking

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known

3. COMPOSITION AND INFORMATION ON INGREDIENTS

No.	INGREDIENT NAME	CAS No.	Volume %	% Content
1	Alcohol	64-17-5	65-70	Solvent
2	Water	7732-18-5	30-35	Solvent
3	Propylene Glycol	57-55-6	0-10	Skin-Conditioning Agent
4	Tocopheryl Acetate	58-95-7	0-1	Antioxidant
5	Melaleuca Alternifolia (Tea Tree) Leaf Oil	8022-72-8	0-1	Fragrance Ingredient
6	Lavandula Angustifolia (Lavender) Oil	8000-28-0	0-1	Fragrance Ingredient
7	Glycerin	56-81-5	0-1	Skin-Conditioning Agent - Humectant
8	Polysorbate 80	9005-65-6	0-1	Surfactant - Solubilizing Agent
9	Carbomer	9003-01-4	0-1	Viscosity Increasing Agent - Aqueous
10	Triethanolamine	102-71-6	0-1	pH Adjuster

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4. FIRST AID MEASURES

- 1) Ingestion :
 - Get immediate medical advice/attention.
- 2) Eye Contact :
 - Consult an ophthalmologist promptly.
 - Wash well open eyes immediately, abundantly and thoroughly with soap and water for at least 20 minutes.
 - Get medical attention if symptoms persist.
- 3) Inhalation :
 - Move to fresh area.
 - In case of apnea : Give CPR to him/her.
 - In case of difficulty in breathing : Provide oxygen to him/her.
 - Keep a person warm and at rest.
- 4) Other advices for doctors :
 - Be aware of relevant substance and take protective actions.

5. FIRE-FIGHTING MEASURES

- 1) Suitable extinguishing media :
 - Alcohol-resistance foam extinguishing agent, carbon dioxide or water spray.
 - In case of extinguishment by smothering : Use dry sand or soil.
- 2) Special hazards arising from the chemical substance or mixture :
 - During a fire, irritating and toxic smoke may be generated by pyrolysis or combustion.
 - Container may explode when heated.
 - Partially flammable but not ignited easily.
 - Nonflammable substance may be decomposed when heated and form corrosive/toxic fume.
- 3) Special protective equipment and precautions for fire-fighters :
 - Wear appropriate protective equipment.
 - Avoid the area, maintain the safety distance and extinguish fire.
 - Be cautious of transferrable fused substances.
 - Lock up the fire fighting water by digging ditches and do not let the substances to get scattered.
 - If not dangerous, containers may be transferred in fire area.
 - In case of fire on tank, Extinguish the fire with the maximum distance or use unmanned equipment.
 - In case of fire on tank, Cool down the container with plenty of water even after fire is extinguished.
 - In case of fire on tank, Evacuate immediately if pressure relief device makes a noisy sound or the color of tank changes.
 - In case of fire on tank, Evacuate from the tank in flames.
 - In case of large fire, Use unmanned equipment. If it's impossible, retreat and let it burn.
 - Water, scattered when the container is heated or exploded, may burn the skin or eyes.

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6. ACCIDENTAL RELEASE MEASURES

1) Personal precautions, protective equipment and emergency procedures

Personal Precautions

Avoid contact with eyes and clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. See section 8 for more information. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

2) Environmental precautions

Environmental Precautions

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

3) Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways.

Methods for Cleaning Up

Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

1) Precautions for safe handling :

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact eyes and clothing. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

2) Conditions for safe storage, including any incompatibilities :

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products

None known based on information supplied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

1) General Measures : No special measures required.

2) Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tight sealing safety goggles.

Skin and Body Protection

Wear protective gloves/clothing. Long sleeved clothing. Impervious gloves.

Respiratory Protection

No protective equipment is needed under normal use conditions. If irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Avoid contact with eyes and clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

- 1) Appearance : Translucent Gel
 - 2) Color : Colorless
 - 3) Odor : Characteristic
 - 4) Microbiological Limit Test : Bacteria - max 1000cfu/g
Pathogens, yeasts, molds - Negative
 - 5) Lead : Less Than 20ppm
 - 6) Arsenic : Less Than 2ppm
 - 7) Flash point : 28°C
- * Refer to Certificate Of Analysis provided by THURINGEN KOREA. CO., LTD. for more information.

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
Ph	6-8	None known
Melting/freezing point	No data available	None known
Boiling Point/Range	No data available	None known
Flash Point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air	No data available	
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	0.85-0.90	None known
Water Solubility	Miscible with water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity :

No data available.

Chemical stability :

Stable at room temperature and at atmospheric pressure.

Possibility of Hazardous Reactions :

None under normal processing.

Hazardous Polymerization :

Hazardous polymerization does not occur

Conditions to avoid :

Heat, flames and sparks.

Incompatible materials :

None known based on information supplied.

Hazardous Decomposition Products :

Carbon oxides.

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11. TOXICOLOGICAL INFORMATION

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes. May cause redness, itching, and pain.
Skin Contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on toxicological effects

Redness of the skin. May cause redness and tearing of the eyes. Itching. Rashes. Hives.
Coughing and/ or wheezing. Symptoms of allergic reaction may include rash, itching, swelling,
trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain,
muscle pain, or flushing

12. ECOLOGICAL INFORMATION

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

<u>Ecotoxicity</u>	No information available.
<u>Persistence and Degradability</u>	No information available. available. Other Adverse Effects No information available.
<u>Bioaccumulation</u>	No information
<u>Other Adverse Effects</u>	No information available.

13. DISPOSAL CONSIDERATIONS FOR INDUSTRIAL SETTING

Waste treatment methods

Waste Disposal Methods	This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.
Contaminated Packaging	Dispose of in accordance with local regulations.
US EPA Waste Number	D001

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14. TRANSPORT CONSIDERATION

1) UNRTDG

UN Number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.
(Ethanol)

Class : 3

Packing group : III

Labels : 3

2) IATA-DGR

UN/ID No. : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.
(Ethanol)

Class : 3

Packing group : III

Labels : Flammable Liquids

3) IMDG-Code

UN Number : UN 1987

Proper shipping name : ALCOHOLS, N.O.S.
(Ethanol)

Class : 3

Packing group : III

Labels : 3

15. REGULATORY INFORMATION

International Inventories

TSCA

Exempt

DSL

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	NO
Chronic Health Hazard	NO
Fire Hazard	YES
Sudden Release of Pressure Hazard	NO
Reactive Hazard	NO

Clean Water Act (CWA)

This product does not contain any substances regulated as pollutants pursuant to the CWA (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

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16. OTHER INFORMATION

<u>NFPA</u>	Health Hazard	Flammability 3	Instability 0	Physical and Chemical
<u>HMIS</u>	Health Hazard	Flammability 3	Physical Hazard 0	'Hazards - None Personal Protection X

1) Reference :

- Occupation Safety and Health Act
- Standards on Classification and Labeling of Chemical Substances and Material Safety Data Sheet (Ministry of Labor Notice 2009-68)
- Material Safety Data Sheet by Korea Occupational Safety and Health Agency

2) Initial date of preparation : 2020-02-12

3) Revision number and the latest revision date : 1 / 2020-04-02

4) Others :

All information, recommendations, and suggestions appearing herein concerning our product are based on the data believed to be reliable. however, it is the user's responsibility to determine the safety, toxicity, and suitability for his own use of the product described herein.