



Reference: Dangerous Goods Regulations (DGR – IATA) 61st edition 2020 EC Regulation num. 1272/2008 [CLP]	MATERIAL SAFETY DATA SHEET (MSDS) Product: Hand sanitizer Gel	Version 01 Date last revision: 01.04.20 SHEET 1 of 8
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1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY/:

1.1. Product identifier: Hand Sanitizer

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

Use of the substance: Hydro-alcoholic solution for hand disinfection.

1.3. Details of the supplier of the safety data sheet

Manufacturer: Agriconst VN Trading and Import Export Co., Ltd

Office: Saigon Trade Center, 37 Ton Duc Thang Str., Ben Nghe Ward, Dist 1, HCMC, Vietnam, 700000

Factory: 50/18/3 Str.23, Hiep Binh Chanh Ward, Thu Duc Dist., HCMC, Vietnam, 700000

Telephone number: +84 (0)912 948 918

E-mail: agriconstvn@gmail.com

1.4. Emergency number: +84 (0)912 948 918 (working hours)

2. HAZARD IDENTIFICATION:

2.1. Classification of the substance or mixture

Classification according to EC Regulation num. 1272/2008 [CLP]

LIQUID FLAMMABLE. Category 2 (H225)

EYE IRRITATION. Category 2 (H319)

2.2. Label elements: according to EC Regulation num. 1272/2008 [CLP]

- Keep away from heat/sparks/open flames/hot surfaces. — No smoking. (P210)
- Adult supervision advised for child use.
- If eye irritation persists: Get medical advice/attention. (P337+P313)
- Store in a well-ventilated place. Keep cool. (P403+P235)

2.3. Other hazards

Flammable (contains ethyl alcohol). Wait until total evaporation.

No significant environmental or health risks if used under standard conditions of commercial and industrial use.

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PBT: This product is not identified as PBT/vPvB

3. COMPONENT COMPOSITION / INFORMATION

3.1. Substance/Mixture: Mixture for (1000ml)

Components:

Ingredient	CAS num.	Classification*	
		1272/2008	Concentration
Ethyl alcohol (Ethanol) 96 ⁰	64-17-5	Flam. liq. 2: H225	74%
Water	7732-18-5		15%
Glycerin	56-81-5		10.7%
Carbomer	9003-01-4		0.15%
Fragrance			0.1%
Triethanolamine	102-71-6		0.01%

* Complete text of Hazard statements indicated in this Section are explained in Section 16.

4. FIRST AID MEASURES:

4.1. Description of first aid measures

First aid measures:

Swallowing: (*) Rinse mouth with water and require immediately medical assistance. If the patient is conscious, give him water.

Inhalation (ethanol): Transfer the victim to a non contaminated atmosphere. In case of breathing interruption, apply artificial respiration. Maintain the victim in repose and seek for medical advice.

Eye contact: Wash with plenty of water for at least for 15 minutes. If irritation persists, consult an ophthalmologist.

4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms: No specific effects and/or symptoms are known. Hazards derived from ethanol alcohol: headaches, vertigo, narcosis, drowsiness. The swallowing can cause inebriation, coma. Skin, eye and respiratory tract irritation.

4.3. Indication of any immediate medical attention and special treatment needed

See section 4.1.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Foam, dry chemical powder, CO₂, sand and water spray fog.



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5.2. Special hazards arising from the substance or mixture

Special hazards of fire/explosion: Extremely flammable product with heat, sparks, static electricity or flames. Vapor/air mixtures are explosive.

Special measures: Cool the bottles pulverizing water to them if they are exposed to fire. Do not use a jet of water. Keep away from sources of ignition – Do not smoke.

5.3. Advice for firefighters

Special protective equipment for fire-fighters: Fire-fighters must be provided with adequate protective equipment.

6. ACCIDENTAL RELEASE MEASURES:

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Take common precautions. Extinguish the flames. Eliminate ignition sources. Do not smoke. Avoid sparks.

6.2. Environmental precautions

Environmental precautions: Avoid pouring the product into the public drainage. If the product reaches a river course or a sewer, or it has contaminated the soil or vegetation, warn the Authorities. Collect it in plastic containers and eliminate it in appropriate places.

6.3. Methods and material for containment and cleaning up

Cleaning measures: Do not release product into drainpipes or in the environment. Eliminate the spilled product with materials that act as absorbents (sawdust, peat, or chemical chelating agents). Place the collected product in containers that can be closed. Clean floor and all objects with this material using a damp cloth. Collect the cleaning materials and put them inside containers that can be closed.

6.4. Reference to other sections

Refer to sections 8 and 13 of MSDS.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Handling: Take measures to avoid splashing in the eyes and on skin.

7.2. Conditions for safe storage, including any incompatibilities Storage: Store in high density polyethylene containers or PET. Store at room temperature and avoid extreme temperatures and direct contact with sunlight. Store only in the original containers.

7.3. Specific end use(s)

Antiseptic for healthy skin. For professional use only.



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Threshold Limit Value (TLV) of Ethyl alcohol: The ACGIH recommends a TWA of 1000 ppm (1880 mg/m³).

8.2. Exposure controls

Hygienic measures: Do not eat, drink or smoke during use.

Exposure control: Avoid spilling, contact with eyes and ingestion.

Equipment to provide adequate personal protection: Non specific protection equipment is required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Aspect: Transparent liquid gel

Odour: characteristic (alcohol)

pH: 5.5-7.5 (20 °C)

Solubility in water: 100% soluble (20 °C)

Density: 0.80 – 1.00 g/cc (20 °C)

Flammability: Flammable

Closed flash point: 11°C

9.2. Other information

Data for Ethyl Alcohol

Flash Point: 13 °C

Relative density of vapour: 1.59

Octanol-water partition coefficient: log P_{ow} = 0.32

10. STABILITY AND REACTIVITY

10.1 Reactivity

Ethyl alcohol. Reacts with strong oxidizers, nitric acid, perchlorates, peroxydes and in general with all unstable organic components. Reacts with alcalin metals, liberating hydrogen in a violent reaction.

10.2. Chemical stability

Product is stable in recommended conditions of handling and storage.

10.3 Possibility of hazardous reactions

It does not present.

10.4. Conditions to avoid

Non applicable

10.5. Incompatible materials

Non applicable

10.6. Hazardous decomposition products

Non applicable.

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11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

Oral route: Not harmful by oral ingestion. DL_{50} (oral route) > 2000 mg/kg

Inhalation route:

Ethyl alcohol: The ACGIH recommends a TWA of 1000 ppm (1880 mg/m^3).

These values are not exceeded during the use of the product, according to the expected use of the product.

Through skin and/or eyes:

*Skin irritation: It is not irritating.

*Eye irritation: It is not irritating to the eyes.

*Skin sensitisation: It does not cause hypersensitisation.

Corrosiveness: Not corrosive.

Carcinogenicity: Not carcinogenic

Mutagenicity: Not mutagenic

Toxicity for reproduction: Not toxic for reproduction

12. ECOLOGICAL INFORMATION

12.1. Toxicity:

In order to avoid human and environmental risks, follow the instructions for use.

12.2. Persistence and degradability

The product has powerful bactericide, virucide and fungicide action, hence it could affect the EDAR microbial flora.

12.3. Bioaccumulative potential

Not available.

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance

12.6. Other adverse effects

Not applicable

Ethyl alcohol

- *Mobility:*

- The product is volatile/gaseous and it easily goes into the air. The product dissolves quickly in water. The product is not well absorbed in soils or sediments.

- *Persistence and degradability:*

- The product is easily biodegradable. $DBO_5=37-74\%$ of DTO.
 $DBO_{20}=75-84\%$ of DTO.

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- *Bioacumulación* :
 - The product does not bioaccumulate.
 - LC₅₀-48h > 8000 mg/l in Fish.
 - Limit toxicity concentration in seaweed (test of inhibition of citomultiplication) = 5000 mg/l.
 - Bacterial inhibition test have shown that the product does not inhibit the biomass.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

It is recommended to package product surplus or waste resulting from normal use. Label it for identification purposes and seal it. Dirty, empty recipients should be handled in the same manner. The product may be taken to a controlled incineration site, always according to local regulations.

14. TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations 61st edition for transport by air.

14.1. UN number

1993

14.2. UN Proper shipping name

Flammable liquid, n.o.s. (Ethanol)

14.3. Transport hazard class(es)

Class 3

14.4. Packing group

Group II

Air (IATA/ICAO):

UN1993 – Flammable liquid, n.o.s. (Ethanol)

Label: Flammable liquid

Class 3

Special provisions A3

Packaging group II

Passenger aircraft: Packaging instructions 353/ Y341

Max. net quantity 5L/1L

Cargo aircraft: Packaging instructions 364

Max. net quantity 60L

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15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

The information for safety and health with respect to the label of this product is in accordance with the European Union regulation: n° 1907/2006, 453/2010 and 830/2015.

European legislation: Regulation (EC) n° 1272/2008

15.2. Chemical safety assessment: not required

15.3. The International Air transport Association (IATA) Dangerous Goods Regulations 61st Edition.

UN number: UN1993

16. OTHER INFORMATION

Other information:

Complete text of hazard statements as referred to in sections 2 and 3:

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness

Formation advice:

The product must be handled by specialized personnel, following manufacturer instructions.

Calculation method determination according to Regulation (EC) 1272/2008 has been used for the classification of the mixture.

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