

HAND SANITIZER GEL 70% (V/V) ETHANOL FORMULATION

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015)
Date of issue: 06/12/2020

SECTION 1: Identification

Product name : HAND SANITIZER GEL 70% (V/V) ETHANOL FORMULATION
Product code : 10532
Recommended use : ANTISEPTIC (SKIN) CLEANSER, NPN 80101710

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Guardian Chemicals Inc. will not compromise when it comes to the Environment, Health & Safety. This SDS represents the product as supplied in pure concentrated form. Risks may be reduced by use of appropriate engineering, administration and/or personal protective equipment (PPE). Risks and hazards may be reduced when handling the diluted product, but remain as represented on the SDS for the concentrate.

SECTION 2: Hazard identification

Classification

Flammable liquids, Category 2
Serious eye damage/eye irritation, Category 2

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

GHS CA labelling

Hazard pictograms (GHS CA) :



Signal word (GHS CA) :

Danger

Precautionary statements (GHS CA) :

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P242 - Use only non-sparking tools.
P243 - Take action to prevent static discharges.
P280 - Wear eye protection.
P370+P378 - In case of fire: Use waterfog, foam, carbon dioxide (CO₂), dry extinguishing powder to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to an approved waste disposal plant

SECTION 3: Composition/information on ingredients

Mixtures

Name	Chemical name / Synonyms	Product identifier	Concentration (%)*
Ethanol	Ethyl alcohol	(CAS-No.) 64-17-5	60-80

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

First-aid measures after inhalation : If you feel unwell, seek medical advice.
First-aid measures after skin contact : Intended as a hand sanitizer. Large volumes should be rinsed off.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison centre or doctor/physician for treatment advice.
First-aid measures after ingestion : Call a physician immediately.
First-aid measures general : Call a poison center or a doctor if you feel unwell.
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : Dry skin.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : No specific information available.
Chronic symptoms : Dermatitis.
Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media : Water fog or foam. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : No unsuitable extinguishing media known.
Fire hazard : Highly flammable liquid and vapour. At temperatures greater than the flashpoint, flammable vapours are released, which if exposed to an ignition source can cause fire.
EN (English)

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- Explosion hazard : Ignition of a flammable vapour in an enclosed space may cause an explosion.
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- General measures : Absorb spillage to prevent material damage.

Methods and materials for containment and cleaning up

- Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid breathing vapours.
Technical measures : Comply with applicable regulations.
Hygiene measures : Do not eat, drink or smoke when using this product.
Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Incompatible products : Strong oxidizing agents. peroxides. alkali metals. Strong acids. Acid anhydrides, acid chlorides.
Heat and ignition sources : Keep product away from heat and ignition sources.

SECTION 8: Exposure controls/personal protection

Control parameters

Ethanol (64-17-5)		
USA - ACGIH	ACGIH STEL (ppm)	1000 ppm
USA - ACGIH	Remark (ACGIH)	URT irr

No additional information available

SECTION 9: Physical and chemical properties

- Physical state : Liquid
Appearance : Clear gel.
Colour : Colourless
Odour : Alcohol odour
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : Not applicable
Freezing point : No data available
Boiling point : > 78 °C (Ethanol)
Flash point : 20 °C (Tag Closed Cup)
Auto-ignition temperature : > 363 °C (Ethanol)
Decomposition temperature : No data available
Flammability (solid, gas) : Not applicable
Vapour pressure : No data available
Vapour pressure at 50 °C : No data available
Relative density : No data available
Density : ≈ 0.9 kg/l
Solubility : Soluble in water.
Partition coefficient n-octanol/water (Log Pow) : No data available
Explosive limits : No data available

Other information

No additional information available

SECTION 10: Stability and reactivity

- Reactivity : Highly flammable liquid and vapour.
Chemical stability : Stable under normal conditions of storage and use.
Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
Conditions to avoid : Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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

SECTION 11: Toxicological information

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Ethanol (64-17-5)	
LD50 oral rat	10470 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 15800 mg/kg bodyweight (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CA (oral)	10470 mg/kg bodyweight

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Carcinogenicity: Ethanol (CAS 64-17-5) in alcoholic beverages is classified by the IARC Monographs as Group 1, Carcinogenic to Humans (Vol. 96 and 100E). Ethanol has been shown to be carcinogenic to humans in long term studies when consumed as an alcoholic beverage. Exposure through ingestion of ethanol is not applicable to the intended use of this product.
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified.
Aspiration hazard : Not classified
Symptoms/effects after inhalation : None under normal use.
Symptoms/effects after skin contact : Dry skin.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : No specific information available.
Chronic symptoms : Dermatitis.

SECTION 12: Ecological information

No additional information available.

SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

UN-No. (TDG) : UN1170
Packing group : II - Medium Danger
TDG Primary Hazard Classes : 3 - Class 3 - Flammable Liquids
Proper Shipping Name (Transportation of Dangerous Goods) : ETHANOL SOLUTION
: LIMITED QUANTITY 1L

SECTION 15: Regulatory information

No data available

SECTION 16: Other information

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