

1. Identification of substance

Product Name: HAND SANITIZER
Trade Name: HAND SANITIZER
Recommended Use: Sanitizer/ antiseptic
Supplier: Safe-T-Tec
Address: 39-45 Shelley Street
Palmerston North
New Zealand
Phone Number: 06 356 2015
Email: support@safe-t-tec.co.nz
Emergency number: Call your nearest poison control center

2. Hazards Identification

GHS Classification: Flammable liquids 2
GHS Pictograms:



Signal Words: Danger

Hazard Statement: H225: Highly flammable liquid and vapour

Precautionary Statement: P210: Keep away from heat/sparks/open flames/ hot surfaces. – No smoking

Prevention: P233: Keep container tightly closed
P240: Ground/bond container and receiving equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: P303+P361 +P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Response: Rinse affected areas with water [or shower]
P370+P378: In case of fire: Use extinguisher to extinguish

Precautionary Statement: P403+P235L: Store in a well-ventilated place. Keep cool.

Storage

Precautionary Statement: P501: Dispose of contents/container in accordance with local regulation.

Disposal

Other hazards that do not result in classification: Not available.

3. Composition/ information on ingredients

- Substances
 Mixtures

Component Information

Component	CAS NUMBER	EINECS number	Mass (%)
ALCOHOL	64-17-5	200-578-6	75%wt
WATER	7732-18-5	231-791-2	20%wt
GLYCERIN	56-81-5	200-289-5	3%wt

4. First Aid Measures

NOTE TO PHYSICIAN	In case of shortness of breath, give oxygen. Keep the victim warm. Keep victim under observation. Symptoms may be delayed.
After inhalation:	Move to fresh air. Give oxygen or artificial respiration if needed. Get immediate medical attention.
After skin contact:	Immediately flush skin with plenty of water. Remove and isolate contaminated clothing and shoes. If irritation persists, get medical attention immediately. For minor skin contact, avoid spreading material on unaffected skin. Wash clothing separately before reuse.
After eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention immediately.
After ingestion	Rinse mouth. Give one or two glasses of water to drink. Do not induce vomiting without medical advice. If vomiting occurs naturally, have the victim lean forwards to reduce risk of aspiration. Loosen tight clothing such as a collar, tie, belt, or waistband. Do not use mouth to mouth method if victim ingested substance. Seek medical attention.

Most important symptoms/effects, acute and delayed – NO DATA AVAILABLE

5. Fire-fighting measures.

Suitable extinguishing agents	Use chemical foam, dry powder, carbon dioxide or water.
Special hazards caused by the material, its products of combustion or flue gases	If there is a risk of splashing, use safety glasses or goggles, and wear protective clothing to prevent scalding. The decomposition products may depend on temperature, air supply and other substances. Decomposition products may include but are not limited to: Carbon monoxide and carbon dioxide, irritating and toxic fumes and gases.
Protective equipment for fire fighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing, and facemask.

6. Accidental release measures

Person-related safety precautions	Ensure adequate ventilation. Remove all sources of ignition. Be aware of vapours accumulating to form explosive concentrations. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Measures for environmental protection	Prevent any further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits
Measures for cleaning	Wipe spills with water
Additional information	See Section 7 for more information on safe handling See Section 8 for more information on personal protection equipment See Section 13 for information disposal.

7. Handling and Storage

HANDLING

Information for safe handling	Use in a well ventilated place. If there is a risk of splashing safety glasses or goggles should be used. Always follow good hygiene practices. This product is a personal care disinfection product, which is safe for consumers.
Information about protection against explosions and fires	Keep away from heat and sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.

STORAGE

Requirements to be met by storerooms and containers	Dark storage at room temperature Store in a ventilated, dry and cool place. Keep tightly closed until used. Use explosion-proof lighting, ventilation facilities
Information about storage in one common facility	Do not store in high temperature or direct sunlight. Keep out of reach of children and pets. Store away from incompatible substances such as strong oxidizing agents, various oil Substances, etc.
Further information about storage conditions	Storage areas should be equipped with an appropriate variety and quantity of fire equipment, emergency treatment requirements and suitable materials for leakage

8. Exposure controls/personal protection

Limit Values for Exposure

Component	CAS Number	ACGIH TLV-TWA	ACGIH TLV-STEL	NIOSH REL-TWA	NIOSH REL-SEL
ALCOHOL	64-17-5	N.E.	1,000 ppm	1,000 ppm	N.E.
GLYCERIN	56-81-5	N.E.	N.E.	N.E.	N.E.

**Note 1: N.E means not established.

Appropriate engineering controls	Use adequate ventilation to keep airborne concentrations low. Provide safety shower and eyewash facility
General protective and hygienic measures	Do not get this material in contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
Personal protective equipment	Splash goggles, gloves, protective clothing and a vapour respirator
Breathing equipment	When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators.
Protection of hands	Wear appropriate chemical resistant gloves
Eye/face protection	Use safety glasses with side shields or safety goggles as mechanical barrier for prolonged exposure
Body protection	Full set anti chemical reagent overalls, flame retardant antistatic protective clothing. Choose body protections according to the amount and concentration of the dangerous substance at the workplace

9. Physical and Chemical Properties

Physical State	Clear viscous liquid	PH	7.3±0.5 (Concentration 75±5%; temperature: 20°C)
Color	Colorless	Kinematic viscosity	No Data Available
Odour	Odour of alcohol	solubility	No Data Available
Melting point/ freezing point	No Data Available	Partition coefficient: n-octanol/water (log value)	No Data Available
Boiling point	No Data Available	Vapour pressure	No Data Available
Flammability	Highly Flammable	density and/or relative density	No Data Available
Lower and upper explosion limit	No data Available	Relative vapour density (air=1)	No Data Available
Flash point	22 °C (Closed cup)	Particle characteristics	No Data Available
Auto ignition temp	No Data Available	Decomposition temp	No Data Available

10. Stability and Reactivity

Reactivity	ALCOHOL reacts slowly with calcium hypochlorite, silver oxide and ammonia. This generates fire and explosion hazard. Reacts with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate and magnesium perchlorate. This generates fire and explosion.
Chemical Stability	Stable under recommended storage conditions
Possibility of hazardous reactions	No Data Available
Conditions to avoid (e.g. Static discharge, shock, or vibration)	Heat and flame and spark. The extreme temperatures and direct sunlight. Static discharge
Incompatible materials	Avoid contact with strong oxidizing agents, various oils substances etc.,
Hazardous Decomposition products	The decomposition products depend on the temperature, air supply and other substances. Decomposition products may include but are not limited to; carbon monoxide and carbon dioxide, irritating and toxic fumes and gases

11. Toxicology information

This product is a preparation for which no toxicological data exists. When available, toxicological data for the product's hazardous ingredients are provided below.

Routes of entry: Dermal contact, eye contact, inhalation, ingestion

Acute Toxicity

ALCOHOL (CAS 61-17-5)	LD50 (Oral, rat): 10,470 mg/kg LC50 (Inhalation, rat): 124.7 mg/l (4h) LD50 (Dermal, rabbit): N/A
GLYCERIN (CAS 56-81-5)	LD50 (Oral, rat): 12,600 mg/kg LC50 (Inhalation, rat): N/A LD50 (Dermal, rabbit) > 10,000 mg/kg
Skin Corrosion/ Irritation	Caution should be used with Alcohol allergies and skin wounds. When used as intended, it should not be irritating, sensitizing, photosensitizing or phototoxic.
Serious eye damage/irritation	In case of eye contact, flush the area immediately with plenty of water. If symptoms persist, seek medical attention
Respiratory or skin sensitization	Allergic to Alcohol
Germ Cell Mutagenicity	No germ cell mutagenicity

Carcinogenicity	No carcinogenicity
Reproductive toxicity	No reproductive toxicity
STOT- Single exposure	Not classified
STOT- repeated exposure	Not classified
Aspiration hazard	Not classified
Chronic effects	Not classified
Further information	NONE

12. Ecological Information

Ecotoxicity

Aquatic Toxicity

Test & Species
96 Hr LC50 fish: N/A
48 Hr EC50 Daphnia: N/A
72 Hr EC50 Algae: N/A

Persistence and degradability	Not available
Bio accumulative potential	Not available
Mobility in soil	Not available
Additional information	None

13. Disposal considerations


WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this material.

Dispose of in accordance with the local environmental regulations or local authority requirements

14. Transport information

The Recommendation of Transport of Dangerous Goods (TDG)

UN Number	UN 1170
Proper Shipping Name	ETHANOL SOLUTION
Class/Division	Class 3 Flammable Liquids
Package Group	PGII
Subsidiary risk	--
Labelling Pictogram	
Maritime transport IMDG / Marine pollutant (Yes/No)	Being same with TDG/No
Air transport ICAO-TI and IATA-DGR	Being same as TDG

15. Regulatory information

European/International Regulations

OSHA	Hazardous by definition of Hazard Communication Standard (29CFR 1910.1200).
EINECS Status	The main components of this chemical are included in EINECS inventory
EPA TSCA Status	The main components of this chemical are included in TSCA inventory
Canadian DSL	The main components of this chemical are included in DSL
HMIS (Hazardous Material Identification System ratings)	Health: 0 Flammability: 3 Physical Hazard: 0 Personal Hazard: H (4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1. Slight Hazard; 0. Minimal Hazard)
WHMIS (Canadian Workplace Hazardous Material Identification system ratings):	B2, D2B (ALCOHOL)
GB12238-2012 List of Dangerous Goods.	This product is a dangerous goods on the GB 12268-2012 list of dangerous goods.

16. Other Information

Employers should use this information only as a supplement to other information gathered by them and should make an independent judgement of the suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the “Globally Harmonized System of Classification and Labeling of Chemicals”, “Recommendations of the TRANSPORT OF DANGEROUS GOODS Model Regulations “, “INTERNATIONAL MARITIME DANGEROUS GOODS CODE”, “International Air Transport Association Dangerous Good Regulations”, the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods/hazardous chemicals comply with the relevant requirements of the latest management, regular updates are recommended.

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
IMDG	International Maritime Code for Dangerous Goods
IATA-DGR	Dangerous Goods Regulations by the “International Air Transport Association” (IATA)
ICAO-TI:	Technical Instructions by the “International Civil Aviation Organization” (ICAO)
EINECS	European Inventory of Existing Commercial Chemical Substances
CAS	Chemical Abstracts Service
LC50	Lethal concentration 50%
LD50	Lethal dose 50%
EC50	Effective concentration 50%