

MATERIAL SAFETY DATA SHEET

1. Company Details

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2. Product and Company Identification

Trade / Commercial Name : SanGuard Hand Sanitizer
Synonyms : None
Chemical Family : N/A

3. Composition

Active Ingredients : Ethyl Alcohol (Ethanol) >80% min/100ml H₂O₂ (Hydrogen Peroxide) >0.125%v/v

4. Hazards Identification

Emergency overview : Keep out of reach of children

Warning : Flammable (Ethyl Alcohol)
: Target (Ethyl Alcohol) respiratory system, eyes, CNS, liver, blood and reproductive system.

Potential Health Effects: See Section 12 for more information.

Symptoms of Exposure: Inhalation: May cause irritation of the respiratory tract.

Ingestion: May cause nausea, vomiting and diarrhea.

Eyes: May cause irritation to the eyes.

Skin: None expected.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

5. Physical & Chemical Properties

Identification	: Liquid	Vapor Density : (Ethyl Alcohol) 1.6
Colour	: Clear	Boiling Point : (Ethyl Alcohol) 78.5°C
Odour	: Alcohol	Vapor Pressure : (Ethyl Alcohol) 57.3 hPa at 20°C
PH	: 7,0 - 9,0	Melting Point : (Ethyl Alcohol) -114.1°C
Solubility (in water)	: Soluble	Specific Gravity @ 20°C : 0.801-0.901

6. First Aid Measures

Inhalation: None required. However, if breathing is affected, remove the source of contamination or move the victim to fresh air. Ensure airways are clear. If symptoms develop seek medical attention.

Ingestion: Do NOT induce vomiting. Wash out mouth with water. Seek medical attention.

Skin: If irritation develops and persists, wash gently and thoroughly with soap and running water, seek medical attention.

Eye: If contact with the eye(s) occur, wash with running water holding eyelid(s) open. If symptoms persist seek medical attention.

All info is given in good faith but without guarantee in respect of accuracy & no responsibility is accepted for errors or omissions or the consequences thereof.

7. Fire Fighting Measures

Flash Point: 71°F (21.6°C)

Method Used: ASTM D 93

Lower Flammable Limit: 3.3 (Volume % in air)

Upper Flammable Limit: 19.0 (Volume % in air)

Auto Ignition: (Ethyl Alcohol) 363°C

Flammability Classification: Flammable Liquid IB

Extinguishing Media: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

NFPA Rating: Health:2 Fire: 3 Reactivity:0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

8. Accidental Release Measures

Personal Precautions: For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions: Prevent discharge to open waters.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-Up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water

9. Handling & Storage

Handling: Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

10. Exposure Controls / Personal Protection

Exposure Guidelines Ethyl Alcohol (64-17-5)

ACGIH: 1,000 ppm TWA

OSHA: 1,000 ppm TWA; 1,900 mg/m³ TWA

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE)

Respiratory Protection: None needed under normal use.

(PPE) Eye/Face Protection: None needed under normal use.

Skin Protection: None needed under normal use.

Respiratory Protection: None needed under normal use.

General Hygiene Considerations: None needed under normal use.

11. Stability Reactivity

Chemical Stability: Stable under normal ambient temperatures 70°C (21°C)

Conditions to Avoid: Avoid excessive heat or sources of ignition.

Incompatible Materials: This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous Decomposition Products: upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Polymerization: Hazardous polymerization will not occur.

12. Toxicological Information

ACUTE EFFECTS: A: General Product information: Product contains ethyl alcohol.

B: Component Analysis LD50

Ethyl Alcohol (64-17-5)

Oral LD50 Rat: 7060 mg/kg

CHRONIC EFFECTS:

Component

Ethyl Alcohol (64-17-5)

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

Neurotoxicity: This product contains ethyl alcohol, a central nervous system target.

Mutagenicity: No information available for product.

Reproductive: No information available for product.

Developmental: Ethyl alcohol is a developmental toxin when consumed during pregnancy.

Target Organs: When consumed, ethyl alcohol can target the respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

13. Ecological Information

Ecotoxicity: Ethyl Alcohol (64-17-5)

96 hour LC50 *Oncorhynchus mykiss*: 12,900 mg/L (flow-through) (30days old)

96 hour LC50 *Pimephales promelas*: 14.2 mg/L

5 min EC50 *Photobacterium phosphoreum*: 35,470 mg/L

30 min EC50 *Photobacterium phosphoreum*: 34,634 mg/L

48 hour EC50 *Daphnia magna*: 9,268 mg/L

24 hour EC50 *Daphnia magna*: 10,800 mg/L

14. Disposal Considerations

Dispose of waste according to local & national regulations.

15. Transport Information

Shipping Name: Consumer Commodity ORM-D

Proper Shipping Name for Non-Consumer Commodity: Ethyl Alcohol Solutions, 3, UN1170, PGIII.

16. Other Information

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