

SAFETY DATA SHEET

Revision 0
Issue date 04/21/2020

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product name **Hand Sanitizer ME48A**
Company **Molecular GPS Enterprises**
 2630 Homestead Place
 Rancho Dominguez, CA 90220
 USA
Telephone/Fax (310)635-5507/(310)635-5503

2. HAZARDS IDENTIFICATION.

2.1 HAZ-CLASS:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200):

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

2.2 LABEL ELEMENTS:

Danger

Hazard statements

Highly flammable liquid and vapor.
 Causes serious eye irritation.
 May cause drowsiness or dizziness.



Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Use only outdoors or in a well-ventilated area
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use only non-sparking tools
 Use explosion-proof electrical/ventilating/lighting/equipment
 Take precautionary measures against static discharge
 Wear protective gloves/eye protection/face protection
 Keep cool

Precautionary Statements - 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
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

IF INHALED: Remove person to fresh air and keep comfortable for breathing
 Call a POISON CENTER or doctor if you feel unwell
 In case of fire: Use dry chemical, CO₂, water spray or alcohol-resistant foam to extinguish

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed
 Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3 HAZARDS ELEMENTS NOT OTHERWISE CLASSIFIED: Not applicable

2.4 OTHER INFORMATION: May be harmful if swallowed. Causes mild skin irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS.

Components	CAS-No.	Weight %
Isopropyl alcohol	67-63-0	≥70%
Glycerin	7732-18-5	≥2%
Hydrogen peroxide	7722-84-1	≥0.15%

4. EMERGENCY AND FIRST AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST-AID MEASURES TO TAKE ACCORDING TO DIFFERENT ROUTES OF EXPOSURE:

INGESTION: Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

SKIN CONTACT: None under normal use conditions. If skin irritation occurs: Get medical advice/attention.

INHALATION: If breathed in, move person into fresh air. If exposed or concerned, get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: May cause redness and tearing of the eyes. Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Prolonged contact may cause redness and irritation.

4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY: Treat symptomatically.

5. FIRE FIGHTING MEASURES

5.1 SUITABLE EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, water spray, alcohol resistant foam.

5.2 SPECIFIC HAZARDS ARISING FROM THE MATERIAL: Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

5.3 SPECIAL PROTECTION EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTING
 Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS/PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill. ELIMINATE all ignition sources. Pay attention to flashback. Take precautionary measures against static discharges. For personal protection, see sections 7 and 8.

6.2 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANUP: Stop leak if you can do it without risk. 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. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. 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**

7.1 PRECAUTIONS FOR SAFE HANDLING: Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use spark-proof and explosion-proof tools and equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Keep container tightly closed in a dry, cool and well-ventilated area. Keep away from heat, sparks, flame and other sources of ignition. Keep in properly labeled containers. Keep in area equipped with sprinklers. Store in accordance with local and national regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Components with workplace control parameters**

Components	ACGIH TLV	OSHA PEL	NIOSH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm	TWA: 400 ppm
Glycerin 56-81-5	-	TWA: 15 mg/m ³ mist, total particulate	-
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm	TWA: 1 ppm

8.2 ENGINEERING CONTROLS: Showers. Eyewash stations. Ventilation systems.

8.3 PERSONAL PROTECTIVE EQUIPMENT (PPE):

Eye/Face Protection: Wear safety goggles.

Skin Protection: Wear suitable gloves. Wear protective clothing and chemical resistant apron.

Respiratory Protection: Ensure ventilation during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colorless liquid.

FLASHPOINT (Method Used): Not determined

ODOR: Alcohol

SOLUBILITIES:

PHYSICAL STATE: DECOMPOSITION TEMPERATURE: Not determined

VAPOR PRESSURE: Not determined

EVAPORATION RATE: Not determined

VAPOR DENSITY: Not determined

SPECIFIC GRAVITY/RELATIVE DENSITY: Not determined

BOILING POINT: Not determined

MELTING/FREEZING POINT: Not determined

PH: Not determined

VOLATILE ORGANIC COMPOUND: Not applicable
FLAMMABILITY: Not determined
UPPER FLAMMABLE LIMIT: Not determined
LOWER FLAMMABLE LIMIT: Not determined
AUTO-IGNITION TEMPERATURE: Not determined
VISCOSITY: Not determined

10. STABILITY AND REACTIVITY

- 10.1 **REACTIVITY:** No further relevant information available
- 10.2 **CHEMICAL STABILITY:** Stable under normal conditions
- 10.3 **POSSIBILITY OF HAZARDOUS REACTIONS:** No further relevant information available
- 10.4 **CONDITIONS TO AVOID:** Heat, flames and sparks.
- 10.5 **INCOMPATIBLE MATERIAL:** Strong oxidizing agents. Acids. Isocyanates. Chlorine.
- 10.6 **HAZARDOUS DECOMPOSITION PRODUCTS:** None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Toxicological effects

ACUTE EYE: No data available
ACUTE SKIN: No data available
ACUTE RESPIRATORY: No data available
SENSITIZATION: No data available
TARGET ORGANS: Respiratory system. Eyes. Skin.
INGESTION: No data available
TOXICITY: No data available
IMMEDIATE EFFECTS: No data available
DELAYED EFFECTS: No data available
CHRONIC EFFECTS (SHORT AND LONG): No data available
CARCINOGENICITY: No data available
NTP: None of the ingredients are listed
OSHA: None of the ingredients are listed
IARC: None of the ingredients are listed

12. ECOLOGICAL INFORMATION

- 12.1 **Ecotoxicological Information**
No further relevant information available
- 12.2 **Persistence and Degradability**
No further relevant information available
- 12.3 **Bio-accumulative Potential**
No further relevant information available
- 12.4 **Mobility in Soil**
No further relevant information available
- 12.5 **Hazardous to the Ozone Layer**
No further relevant information available

13. DISPOSAL CONSIDERATIONS

Waste from residue / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. TRANSPORT INFORMATION**DOT**

UN/ID no	UN1219
Proper shipping name	Isopropyl alcohol solution
Hazard class	3
Packing group	II
Special Provisions	IB2, T4, TP1
DOT Marine Pollutant	NP
Description	UN1219, Isopropyl alcohol solution, 3, II
Emergency Response Guide Number	129

IMDG

UN number	UN1219
UN proper shipping name	Isopropyl alcohol solution
Transport hazard class(es)	3
Packing group	II
EmS-No	F-E, S-D
Marine pollutatn	NP
Description	UN1219, Isopropyl alcohol solution, 3, II

IATA

UN number	UN1219
UN proper shipping name	Isopropyl alcohol solution
Transport hazard class(es)	3
Packing group	II
ERG Code	3L
Special Provisions	A180
Description	UN1219, Isopropyl alcohol solution, 3, II

15. REGULATORY INFORMATION

Adhere to all Federal, State and local regulations.

16. OTHER INFORMATION

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.