

Plastatech[®] Engineering Hand Sanitizer

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name: Plastatech[®] Engineering Hand Sanitizer
Version: 1
Identifier 1: Ethyl Alcohol
Identifier 2: Sanitizing Wipes
Product Type: Liquid Mixture
Product Use: Sanitizing Solution

Company Information: Plastatech[®] Engineering Ltd.
 725 Morley Drive
 Saginaw, MI 48601
 Phone: (800) 892-9358
 Internet Address: www.plastatech.com

24 Hour Emergency Contact: INFOTRAC
 1-800-535-5053 (US & Canada)
 1-352-323-3500 (International)

SECTION 2	HAZARD(S) IDENTIFICATION
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OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazard Classification: **Physical Hazards**
 Flammable Liquids, Category 3

Health Hazards
 Eye Irritation, Category 2A

Pictogram(s):



Signal Word: WARNING

Hazard Statements: H226 - Flammable liquid and vapor.
 H319 - Causes serious eye irritation.

Precautionary Statements: **Prevention**

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking.
- P264 - Wash face, hands and any exposed skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P281 - Use personal protective equipment as required.

Response

- P301+P312+P330 - IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. Rinse mouth.
- P302+P352 - IF ON SKIN: wash with plenty of soap and water.
- P305+P351+P338 - IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- P308+P313 - IF EXPOSED or concerned: get medical advice/attention if necessary.

Storage

- P405 - Store locked up.

Disposal

- P501 - Dispose of contents/container in accordance with all applicable federal, state, and local regulations.

SECTION 3**COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Ingredients**

Chemical Name	CAS Number	Concentration (%)
Ethyl Alcohol	64-17-5	75.00 – 85.00
Water	7732-18-5	18.00 – 20.00
Glycerin	56-81-5	1.00 – 1.45
Hydrogen Peroxide	7722-84-1	0.12 – 0.13

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, that are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4**FIRST-AID MEASURES****Eye Contact:**

Immediately flush eye(s) with plenty of water, occasionally lifting the upper and lower eyelids and continue to rinse for at least 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation persists.

Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected.

Skin Contact:

Contact a physician if rash or severe irritation develops.

Ingestion:

Drink plenty of water. Call a physician or poison control center immediately. Move victim to fresh air and keep at rest in a position comfortable for breathing. Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recover position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt, or waistband.

Most Important Symptoms and Effects, Both Acute and Delayed:

No information available.

Protection of First-Aiders:

No action shall be taken involving any personal risk or without suitable training. Avoid contact with skin and eyes. Use personal protective equipment as required (see Section 8). Show this Safety Data Sheet to the doctor in attendance.

Notes to Physician: Treat symptomatically.

SECTION 5**FIRE-FIGHTING MEASURES**

Suitable Extinguishing Media:	Water spray, dry chemical or Carbon Dioxide.
Unsuitable Extinguishing Media:	Do not use a solid water stream as it may scatter and spread fire.
Specific Precautionary Methods:	No information available.
Special Protective Actions for Fire-Fighters:	No action shall be taken involving any personal risk or without suitable training.
Special Protective Equipment For Firefighters:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) pressure-demand, MSHA/NIOSH (approved or equivalent).

SECTION 6**ACCIDENTAL RELEASE MEASURES**

For Non-Emergency Personnel:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid contact with eyes and skin. Use personal protective equipment as required. Remove ignition sources. No smoking.
For Emergency Responders:	Keep upwind. Do not allow smoking in the area. Avoid naked flames or sparks. Equip cleanup crew with proper protection. See also the information in "For Non-Emergency Personnel".
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.
Containment Methods:	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Cleanup:	Cover liquid spill with a non-combustible material (sand, earth, vermiculite, or powdered limestone). Cover powder spill with plastic sheet or tarp to minimize spreading. Scoop or shovel absorbed substance into closing containers. Carefully collect the spill. Take collected spillage to proper disposing facility. Wash clothing and equipment after handling.
Regulatory Requirements:	Follow applicable OSHA regulations (29 CFR 1940.120).

SECTION 7**HANDLING AND STORAGE**

Handling Precautions:	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.
Storage Requirements:	Store in accordance with federal, state, and local regulations. Store this product upright in a dry and well-ventilated area. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Keep out of the reach of children.
Incompatible Materials:	No information available.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Component	Basis	Value	Exposure Limit(s)* / Form of Exposure
Ethyl Alcohol	OSHA	PEL	TWA: 1,900 mg/m ³ (1,000 ppm)
Glycerin	OSHA	PEL	TWA: 10 mg/m ³
Hydrogen Peroxide	OSHA	PEL	TWA: 1.4 mg/m ³ (1 ppm)
Water	-	-	-

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this Safety Data Sheet.

Engineering Measures: Showers and eyewash stations should be available in the immediate vicinity of any potential exposure. Proper ventilation systems should be in place.

Hygiene Measures: Wash exposed skin thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Wash contaminated clothing before reusing.

Personal Protective Equipment:**Respiratory Protection**

If irritation is experienced or if concentration is greater than the listed exposure limits, a NIOSH/MSHA approved respiratory protection shall be worn. Respiratory protection must be provided in accordance with current local regulations.

Eye/Face Protection

If splashes are likely to occur, safety glasses with side shields, or goggles should be worn.

Skin and Body Protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Self-Ignition Temperature:	N/A
Color:	Colorless	Flammability:	N/A
Odor:	N/A	Vapor Pressure:	N/A
Odor Threshold:	N/A	Critical Pressure:	N/A
pH:	N/A	Relative Density:	N/A
Melting Point:	N/A	Density:	N/A
Freezing Point:	N/A	Solubility:	Miscible in Water
Boiling Point:	N/A	Explosive Properties:	N/A
Flash Point:	N/A	Viscosity:	N/A

SECTION 10

STABILITY AND REACTIVITY

Reactivity:	No information available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Conditions to Avoid:	Extremes of temperature and heat.
Incompatible Materials:	Strong oxidizing agents.

Hazardous Decomposition Products: Carbon Monoxide (CO). Carbon Dioxide (CO₂). Hydrocarbons.

SECTION 11**TOXICOLOGICAL INFORMATION****Acute Toxicity**

Ingredient Name	Result	Species	Dose/Exposure
Ethyl Alcohol	LD ₅₀ Oral	Rat	10,740 mg/kg
	LD ₅₀ Dermal	Rabbit	>16,000 mg/kg
Glycerin	LD ₅₀ Oral	Rat	12,600 mg/kg
	LD ₅₀ Dermal	Rabbit	>21,900 mg/kg
	LD ₅₀ Inhalation	Rat	570 mg/m ³
Hydrogen Peroxide	LD ₅₀ Oral	Rat	1,193 mg/kg
	LD ₅₀ Dermal	Rabbit	2,000 mg/kg
	LD ₅₀ Inhalation	Rat	170 mg/m ³
Water	LD ₅₀ Oral	Rat	≥90,000 mg/kg

Irritation: No information available.

Carcinogenicity: No information available.

Specific Target Organ Toxicity: **Single Exposure**
Category 3 Inhalation.

Repeated Exposure
No information available.

SECTION 12**ECOLOGICAL INFORMATION****Toxicity Data**

Ingredient Name	Species	Test Results	Exposure
Ethyl Alcohol	Fish – <i>Pimephales promelas</i>	LC ₅₀ 14,200 mg/l Nominal concentration	96 Hours
	Daphnia - <i>Daphnia magna</i>	EC ₅₀ 9.300 mg/l	48 Hours
	Fish – <i>Oncorhynchus mykiss</i>	LC ₅₀ 13,000 mg/l	96 Hours
	Daphnia – <i>Daphnia magna</i>	EC ₅₀ 10,800 mg/l	24 Hours
	Other Aquatic Organism – <i>Protozoa</i>	Threshold Limit 65 mg/l	72 Hours
	Algae – <i>Microcystis aeruginosa</i>	Threshold Limit 1,450 mg/l Growth rate	192 Hours
	Algae – <i>Scenedesmus quadricauda</i>	Threshold Limit 5,000 mg/l Growth rate	168 Hours
Glycerin	Fish – <i>Oncorhynchus mykiss</i>	LC ₅₀ 51-57 ml/l	96 Hours
	Daphnia - <i>Daphnia magna</i>	EC ₅₀ 500 mg/L	24 Hours
Hydrogen Peroxide	Fish – <i>Pimephales promelas</i>	LC ₅₀ 16.4 mg/L	96 Hours
	Fish – <i>Leuciscus idus</i>	LC ₅₀ 35 mg/L	72 Hours
	Daphnia - <i>Daphnia pulex</i>	EC ₅₀ 2.4 mg/L	48 Hours
	Daphnia - <i>Daphnia magna</i>	EC ₅₀ 7.7 mg/L	24 Hours
	Algae – <i>Skeletonema costatum</i>	EC ₅₀ 1.38 mg/L	72 Hours
	Daphnia - <i>Daphnia magna</i>	NOEC ₅₀ 0.63 mg/L	21 Days
Water	-	-	-

Persistence and Degradability: Readily biodegradable in water. Biodegradable in soil. No data on mobility of the substance available.

Bioaccumulation Potential: Material may have some potential to bioaccumulate but will likely degrade in most environments before accumulation can occur.




Mobility: Will likely be mobile in the environment due to its water solubility but will likely degrade over time.

Other Information: Avoid release to the environment.

SECTION 13**DISPOSAL CONSIDERATIONS**

Disposal Methods: Remove waste in accordance with federal, state, and local regulations. Hazardous waste shall not be mixed with other waste and it shall be managed responsibly. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. All entities that store, transport, or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not reuse containers.

SECTION 14**TRANSPORT INFORMATION**

	DOT Classification	IMDG	IATA
UN Number	UN 1987	UN 1987	UN 1987
UN Proper Shipping Name	ALCOHOL, N.O.S.	ALCOHOLS, N.O.S.	ALCOHOLS, N.O.S.
Transport Hazard Class	3 	3 	3 
Packing Group	II	II	II

Non-Bulk Quantities Information: DOT or UN-specification packaging must meet PGII performance standards. Not exceeding a net capacity of 119 gallons. Secure closures/leaks tight. Secure against movement or damage in vehicle.

Bulk Quantities Information: Containers with capacity of greater than 119 gallons. Subject to all requirements of the DOT hazmat regulations.

Other Information: Not a marine pollutant.

SECTION 15**REGULATORY INFORMATION**

TSCA Inventory: All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does contain chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:
Ethyl Alcohol – Fire Hazard

SARA 311/312 Hazard Categories: Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: Yes
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

California Prop 65: This product does not contain a chemical known to the State of California to cause cancer or reproductive harm. For more information, go to www.P65Warnings.ca.gov.

SECTION 16

OTHER INFORMATION

	NFPA	HMIS
Health Hazard	1	1
Flammability	2	2
Instability	0	-
Physical/Chemical Hazards	-	0
Personal Protection	-	X

Previous Editions: First Published: 06/11/2020

Further Information: This SDS was prepared in accordance with OSHA regulatory standards for Toxic and Hazardous Substances: 29 CFR 1910.1200.

Disclaimer: To the best of our knowledge, the information contained herein is accurate. However Plastatech® Engineering Ltd. does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with care. Although Plastatech® Engineering Ltd. has described herein all of the hazards to which we are currently aware; we cannot guarantee that these are the only hazards which exist.