SAFETY DATA SHEET

1. IDENTIFICATION

Product Name:	**Eliminator 216 Hand Sanitizer**
Other means of identification:	None
Supplier:	HE&M Saw PO Box 114H8 Pryor, OK 74362
Telephone:	(918) 824-6252
In Case of Emergency:	DOMESTIC NORTH AMERICA 800-424-9300 INTERNATIONAL 703-527-3887 (collect calls accepted)
Recommended Use:	Hand cleaner and sanitizer. See product data sheet for a detailed description of recommended use.

2. HAZARDS IDENTIFICATION

GHS Classification

This material is classified in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification

EYE IRRITATION/DAMAGE – Category 2A
Flammable Liquid – Category 2

GHS Label
Hazard pictogram

Signal word
Danger

Hazard Statement
H225 – Highly flammable liquid and vapor.
H319 – Causes serious eye irritation.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P271 Use only outdoors or in a well-ventilated area.

Response

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor/physician if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 in case of fire: Use appropriate method to extinguish.

Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up.
Disposal	P501 – Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards Not Otherwise Classified (HNOC)	None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture:

Components/Ingredients	CAS No.	% Range*
Ethanol	64-17-5	80-82

*Specific percentages of composition are being withheld as a trade secret.

Additional components, of which may or may not be present, in this mixture are not classified as hazardous to health or the environment and within the current knowledge of the manufacturer or supplier and current regulations, are required to be reported in this section.

4. FIRST AID MEASURES

Eye	Immediately flush eyes with water. Flush eyes with water for a minimum of 15 minutes, occasionally lifting and lowering upper lids. Get medical attention promptly. Remove contact lenses if worn.
Ingestion	Small amounts which accidentally enter mouth should be rinsed out until taste of it is gone. Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.
Inhalation	Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention. To prevent aspiration, keep head below knees.
Notes to Physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Treatment should in general be symptomatic and directed to relieving any effects.

Most important symptoms or effects, acute and delayed

For more detailed information on health effects and symptoms see Section 11 – TOXICOLOGICAL INFORMATION

Description of necessary first aid measures or specific treatments

Treatment should in general be symptomatic and directed to relieving any effects.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Carbon Dioxide, Dry Chemical, Foam, Water spray, alcohol-resistant foam.
Specific Hazards from Chemical	Not known.
Hazardous Combustion Products	Combustion products may include the following: oxides of carbon (CO, CO_2), and other undetermined byproducts of combustion.

Special Fire Fighting Instructions	As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear. Avoid use of solid water streams. Water spray to cool containers or protect personnel. Use with caution. Use water spray to knock down vapors. Water runoff can cause environmental damage. Dike and collect water used to fight fire.
Unusual Fire or Explosion Hazards	Highly flammable liquid and vapor. Vapors/dust may cause flash fire or explosion. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures	Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.)
Environmental Precautions	Dike spilled material to prevent spreading and any releases of this material to the environment.
Methods and Materials for Containment and Cleaning Up	Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

7. HANDLING AND STORAGE

Handling	Use only in a well-ventilated area. Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues.
Storage	Keep away from heat, sparks, and flame. Store containers in a cool, well ventilated place. Keep container closed when not in use. Protect from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls	The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Showers, eyewash stations, and ventilation systems are appropriate.
Environmental Controls	Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.
Exposure Limit Values	

Ethanol	ACGIH TLV-TWA
	1000 ppm
	ACGIH-TLV STEL
	Not Available
	OSHA PEL-TWA
	1000 ppm
Personal Protective Equipment	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Eye / Face Protection	Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).
Skin Protection	Wear impervious protective gloves. Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots.
Respiratory Protection	NIOSH/MSHA approved respirators may be necessary if airborne concentrations are expected to exceed exposure limits.
Special Instructions for Protection and Hygiene	Do not eat, drink, or smoke in areas where this material is used. Avoid breathing vapors. Remove contaminated clothing and wash before reuse. Wash thoroughly after handling. Wash hands before eating.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colorless liquid
Odor	Typical, ethanol
Odor Threshold	No Data Available
pH	7-8
Melting Point / Freezing Point	-143°C (-227°F)
Initial Boiling Point and Boiling Range	172 - 176 °F
Flash Point	57.2°F – Closed Cup
Evaporation Rate (Butyl Acetate @ 25°C = 1)	No Data Available
Flammability (solid, gas)	No Data Available
Upper Explosive Limit / Lower Explosive Limit	19% / 3.3%
Vapor Pressure (Water @ 20°C = 17.5 mmHg)	59.5 hPa (44.6 mmHg) at 20.0oC (68.0oF)
Vapor Density	Mixture Not Determined
Relative Density (20°C)	0.79
Solubility	Completely Soluble
Partition Coefficient (n-octanol / water)	Not Determined
Auto-ignition Temperature	363°C (685°F)
Decomposition Temperature	Not Determined
Viscosity	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended handling and storage conditions.
Conditions to Avoid	Avoid impact, friction, heat, sparks, flame and source of ignition.
Incompatible Materials	Avoid contact with caustics. Prevent contact with inorganic acids. Prevent contact with aldehydes. Avoid contact with chlorinated compounds. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Avoid contact with amines. Plastics. Reducing agents. Nitrogen oxides.
Hazardous decomposition materials	Toxic gases/fumes are given off during burning or thermal decomposition. During combustion carbon monoxide may be formed. During combustion carbon dioxide may be formed.
Reactivity	Not expected.

Other Information	None known.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Skin Contact, Eye Contact, ingestion, inhalation

Potential Acute Health Effects

Eye Contact	Causes serious eye irritation.
Skin Contact	May cause skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation	Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). May cause dizziness and drowsiness. May cause central nervous system depression.
Ingestion	May be fatal if swallowed and enters airway. Irritating to mouth, throat, and stomach. May cause central nervous system depression.

Component	Result	Species	Dose	Exposure
Ethanol	LD50 Oral	Rat	2,743 mg/kg	
	LD50 Dermal	Rabbit	2,000 mg/kg	
	LC50 Vapor	N/A	No data	

Symptoms related to; physical, chemical and toxicological characteristics

Eye Contact	Irritation, dryness, stinging, tearing.
Skin Contact	Not determined.
Inhalation	Not determined, may cause respiratory irritation.
Ingestion	Not determined.

Component	Result	Species	Dose	Exposure

Delayed / Chronic Health Effects

Eye Contact	Irritation, dryness.
Skin Contact	Defatting, drying, and cracking.
Inhalation	Vapors irritating to eyes and respiratory tract. Overexposure may cause nervous system damage. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema. A component of this product is a potential hazard to the fetus. Exposure may damage liver and kidneys.
Ingestion	Not determined

Skin Corrosion / Irritation	Mixture not determined.
Eye Damage / Irritation	Category 2
Skin Sensitizer	Mixture not determined
Respiratory Sensitizer	Mixture not determined
Germ Cell Mutagenicity	No significant effects or critical hazards
Teratogenicity	Mixture not determined
Developmental	Mixture not determined
Fertility	Mixture not determined
Carcinogenicity	Not identified as probable, possible or confirmed human carcinogen by IARC, NTP or OSHA.
Reproductive Toxicity	Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.
Aspiration Toxicity	Mixture not determined
Specific Target Organ Toxicity – Single Exposure	Mixture not determined
Specific Target Organ Toxicity – Repeated Exposure	Mixture not determined
Additional information	None known.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity	Do not release into waterways, water systems, or land. Material is water soluble. May cause adverse physical affects to aquatic organisms. Not expected to be toxic to aquatic organisms. Not determined for classification under 1910.1200.
Terrestrial Toxicity	Ethanol - Not determined.
Persistence and Degradability	Expected to be partially biodegradable.
Mobility in Soil	Mixture not determined.
Other Adverse Ecological Effects	Complete ecological effects of this mixture are not known. Do not release into waterways, water systems, or environment.

13. DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with all current applicable federal, state, and local laws and regulations, and material characteristics at time of disposal. Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty containers should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

Steps to be taken in case material is released or spilled: Wear appropriate personal protective equipment. (See Exposure Controls / Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. A vapor suppressing foam may be used to reduce vapors. If leak or spill has not ignited, use water spray to disperse the vapors. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Use clean, non-sparking tools to collect absorbed materials. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Recover by pumping (use an explosion proof or hand pump).

The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste, nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, toxicity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

UN Number	UN1993
UN Proper Shipping Name	Ethanol
Transport Hazard Class	3
Packing Group	II
Environmental Hazards	Marine Pollutant – No
Transportation in Bulk (Annex II of MARPOL 73/78 and IBC Code)	
Special Precautions	Spilled material may be a slip hazard.
U.S. DOT / Canadian TDG	Regulated
IMO / IDMG	Not determined
ICAO / IATA	Not determined
ADR / RID	Not determined

15. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: The hazard classifications of this substance / mixture were made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

SARA 304 Emergency release notification Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories
Flammable liquid, Eye irritation, Specific target organ toxicity (Single exposure), acute toxicity (Oral, skin)

CERCLA Reportable Quantity:

SARA 302 Extremely hazardous substance Not listed.

SARA 311/312 Hazardous chemical Fire Hazard, chronic health hazard.

SARA 313 (TRI reporting) Not regulated.

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)
Not regulated

Complies with the following national/regional chemical inventory requirements: TSCA, DSL, EINECS
US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
This product can expose you to chemicals including **Ethylbenzene, **Cumene, **Benzene, **Naphthalene, which is/are known to the State of California to cause cancer, and **Toluene, **Benzene, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. ADDITIONAL INFORMATION

Revision Date: April 6th, 2020
Revision #: 1.0
Supersedes Revision #: N/A
Prepared or Revised By: HE&M Saw

This SDS prepared for this substance / mixture was made congruent to the Occupational Safety and Health Standards, established in OSHA Regulation Standards 29 CFR 1910.1200.

HMIS	Health	Flammability	Physical Hazard	PPE
	2	3	0	B
NFPA	Health	Flammability	Chemical Reactivity	Special Hazards
	2	3	0	None Known

Disclaimer: The information presented herein has been compiled from sources considered to be dependable and is accurate as of the date issued. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use are beyond our control, HE&M Saw makes no warranty regarding the accuracy of such data or its suitability for any use or for any consequence of its use. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Safe handling and use remains the responsibility of the purchaser and the purchaser has the sole responsibility to determine the suitability of the materials for any use and the manner of user contemplated. HE&M Saw assumes no responsibility for injury to the recipient or to third persons or for any damage to any property and the recipient assumes all such risks.