

PRODUCT DATA SHEET

**8886 HAND SANITIZER LIQUID**

4/1 GALLON- INCLUDES 1 PUMP

**Product Overview:** Alcohol Antiseptic 80% Topical Solution.

**Chemical Analysis:**

Ingredient	Typical %
Ethyl Alcohol	80%
Water	15.425%
Glycerin	1.45%
Hydrogen Peroxide	0.125%

**Packaging:**

4- 1 Gallon (128 fl.oz.) (3,785mL)

1 Pump is included

**Country of Origin\*:**

MADE IN THE USA

All of Gold Medal Products Co. products are made in the United States of America.

\*Definition: The Country of Origin or product origin is defined as the country where the material was manufactured/produced/cultivated. When the material undergoes substantial transformation in a second country, the country in which the transformation is performed shall be considered the country of origin.

**LABEL:**



<b>Drug Facts</b>	
<b>Active Ingredient(s)</b>	<b>Purpose</b>
Alcohol 80% v/v.....	Antiseptic
<b>Use[s]</b>	
Hand sanitizer to help reduce bacteria that potentially can cause disease. For use when soap and water are not available.	
<b>Warnings</b>	
<b>For external use only. Flammable. Keep away from heat or flame</b>	
<b>Do not use</b>	
<ul style="list-style-type: none"> <li>• in children less than 2 months of age</li> <li>• on open skin wounds</li> </ul>	
<b>When using this product</b> keep out of eyes, ears, and mouth. In case of contact with eyes, rinse eyes thoroughly with water.	
<b>Stop use and ask a doctor</b> if irritation or rash occurs. These may be signs of a serious condition.	
<b>Keep out of reach of children.</b> If swallowed, get medical help or contact a Poison Control Center right away.	
<b>Directions</b>	
<ul style="list-style-type: none"> <li>• Place enough product on hands to cover all surfaces. Rub hands together until dry.</li> <li>• Supervise children under 6 years of age when using this product to avoid swallowing.</li> </ul>	
<b>Other information</b>	
<ul style="list-style-type: none"> <li>• Store between 15-30C (59-86F)</li> <li>• Avoid freezing and excessive heat above 40C (104F)</li> </ul>	
<b>Inactive Ingredients</b> glycerin, hydrogen peroxide, purified water USP	

ITEM #8886 Rev. 1  
  
 0 90939 18886 3  
 Distributed by:  
**GOLD MEDAL PRODUCTS CO.**  
 Cincinnati, OH 45241-4807 USA  
 800-543-0862 | gmpopcorn.com

**Section 1: Product & Company Information**

**Product Identifier:** Alcohol Antiseptic 80% Topical Solution

**Other Means of Identification**

Product Number: 500200-000

**Recommended Use and Restrictions on Use**

Recommended Use: Ethyl Alcohol Formulation for Consumer Use.  
Restrictions on Use: Not for human consumption.

**Manufacturer / Importer / Supplier / Distributor Information**

**Company Name:** Gold Medal Products  
**Address:** 10700 Medallion Drive, Cincinnati, OH 45241

**Information Telephone Number:** 1-800-543-0862

**Fax Number:** 1-513-769-8500

**Website:** gmpopcorn.com

**Contact Person:** Regulatory Specialist

**E-mail:** blantz@gmpopcorn.com

**Emergency Phone Number:** Chemtrec® 1-800-424-9300 / Outside USA 1-703-527-3887 (monitored 24 hours/day)

**Section 2: Hazards Identification**

**GHS Hazard Classification(s)**

In accordance with OSHA Hazard Communication Standard 29 CFR 1910.1200 (HazCom 2012).

**Physical Hazard(s)**

Flammable, Liquids - 2

**Health Hazard(s)**

(Corrosion)Damage/Irritation, Eye - 2A

**Environmental Hazard(s)**

Not classified.

**Label Elements**

**Signal Word**

**DANGER**

**Hazard Symbol(s)**



**Hazard Statement(s)**

H225: Highly flammable liquid and vapor.

H319: Causes serious eye Irritation

**Precautionary Statements**

**Prevention**

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

P233: Keep container tightly closed.

P240: Ground/bond container and receiving equipment.

P241: Use explosion-proof electrical/ventilating/lighting/equipment.

P242: Use only non-sparking tools.

P243: Take precautionary measures against static discharge.

P264: Wash face, hands, and any exposed skin thoroughly after handling. (if prolonged exposure)

P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. (if prolonged exposure)  
 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337 + P313: If eye irritation persists: Get medical advice/attention.  
 P370 + P378: In case of fire: Use suitable extinguishing media for extinction.

**Storage**

P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

**Disposal**

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Section 3: Composition/Information on Ingredients**

**Mixture**

Chemical Identity <sup>2</sup>	Common Name/Synonym(s)	CAS # <sup>3</sup>	Weight %	Impurity or Stabilizing Additive
Alcohol (ethanol)	Ethanol	64-17-5	80%	No
Glycerol		56-81-5	1.45%	No
Hydrogen Peroxide		7722-84-1	0.125%	No

- Information regarding the composition and the percent ranges of the mixtures ingredients are not presented as it Confidential Business Information (CBI). Where a medical emergency exists (as determined by medical professional), timely disclosure of CBI is assured. The information omitted pertains to only the names of the substances and the concentration in the mixture (product) and can only be requested by a doctor/physician or Local/State/Provincial or Federal Authority.
- Non-hazardous ingredients are not presented as to protect the proprietary formula of the product.
- "—"Indicates ingredient is a mixture and contains multiple ingredients or may have no identifying CAS number.

**Section 4: First-Aid Measures**

**General Information**

Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin Contact**

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean contaminated shoes.

**Eye Contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

**Ingestion**

Call a physician or poison control center immediately. Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed**

**Symptoms**

Symptoms will vary with alcohol level of the blood. Mild alcohol intoxication occurs at blood levels between 0.05- 0.15%. Approximately 25% of individuals show signs of intoxication at these levels. Above 0.15% the person is under the influence of ethanol; 50-95% of individuals are clinically intoxicated at these levels. Severe poisoning occurs when the blood is ethanol level is 0.3- 0.5%. Above 0.5% the individual will be comatose, and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs and administering excessive amounts of fluids.

**Indication of immediate medical attention and special treatment needed**

**Hazards**

No data available.

**Treatment**

No data available.

Treat symptomatically. Symptoms may be delayed.

**Section 5: Fire-Fighting Measures**

**General Fire Hazards**

In case of fire and/or explosion do not breathe fumes. Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Water may be ineffective in fighting the fire. Fight fire from a protected location.

**Suitable (and Unsuitable) Extinguishing Media**

**Suitable Extinguishing Media**

**Specific Hazards Arising from the Chemical**

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. May produce a floating fire hazard. Static ignition hazard can result from handling and use. Vapors may travel to source of ignition and flash back. Vapors may settle in low or confined spaces.

**Special Protective Equipment and Precautions for Firefighters**

**Special Fire-Fighting Equipment Procedures**

Alcohols burn with a pale blue flame which may be extremely hard to see under normal lighting conditions. Personnel may only be able to feel the heat of the fire without seeing flames. Extreme caution must be exercised in fighting alcohol fires. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk.

**Special Protective Equipment for Fire-Fighters**

As in any fire, wear self-contained breathing apparatus (SCBA) pressure-demand (OSHA/NIOSH approved or equivalent) and full protective gear.

**Section 6: Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures**

Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep unauthorized personnel away. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Evacuate area.

**Methods and Materials for Containment and Clean-Up**

Eliminate all ignition sources if safe to do so. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures**

Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental Precautions**

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**Section 7: Handling and Storage**

**Precautions for Safe Handling**

DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Ground/bond container and receiving equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product. Use caution when adding this material to water. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with eyes. Avoid contact with skin.

**Conditions for Safe Storage, including any Incompatibilities**

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

**Section 8: Exposure Controls/Personal Protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Value	Source
Ethyl Alcohol	STEL	1000 ppm	US. ACGIH Threshold Limit Values
Ethyl Alcohol	PEL	1000 ppm	US OSHA Table Z-1
Ethyl Alcohol	TWA	1000 ppm	US. NIOSH: Pocket Guide to Chemical Hazard
Ethyl Alcohol	REL	1000 ppm	US. NIOSH: Pocket Guide to Chemical Hazard

**Biological Limit Values**

The product does not contain any relevant quantities of hazardous materials with assigned biological limit values.

**Appropriate Engineering Controls**

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

**Individual protection measures, such as personal protective equipment (PPE)**

**General Information**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

**Eye/Face Protection**

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if needed.

**Skin Protection**

**Hand Protection**

Wear appropriate chemical resistant gloves.

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory Protection**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information

**Hygiene Measures**

Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

**Section 9: Physical and Chemical Properties**

**Appearance:**

Physical State: Liquid  
Color: Colorless Liquid/ Invisible vapor

**Odor:** Sweet, Alcohol-like

**Odor Threshold:** No data available.

**pH:** No data available.

**Melting Point/Freezing Point:** -114 °C (-173 °F)

**Initial Boiling Point and Boiling Range:** 78.3 °C (172.9 °F)

**Flash Point:** 17°C (62°F) - closed cup

**Evaporation Rate** (butyl acetate=1): Specific data not available - expected to be rapid.

**Flammability (solid, gas):** OSHA/NFPA Class IB Flammable Liquid

**Upper/Lower Limit on Flammability or Explosive Limits**

Flammability Limit – Upper: 19% volume

Flammability Limit – Lower: .3% volume

Explosive Limit – Upper: No data available.

Explosive Limit – Lower: No data available.

**Vapor Pressure:** 59.5 hPa (44.6 mmHg) at 20 °C (68 °F) - For 100% Ethyl Alcohol

**Vapor Density** (air =1): 1.6

**Relative Density** (water=1): 0.86 g/mL at 25 °C (77 °F)

**Solubility(ies):**

Solubility in water: Completely

Solubility (other): No data available.

**Partition coefficient (n-octanol/water):** No data available.

**Auto-Ignition Temperature:** 363°C (685.4°F) - (Ethyl Alcohol)

**Decomposition Temperature:** Not applicable.

**Viscosity:** No data available.

**Other Information:**

Molecular Weight: Ethanol: 80%

Formula: Ethanol: C2H6O

**Section 10: Stability and Reactivity**

**Reactivity**

No data available.

**Chemical Stability**

Material is stable under normal conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Heat, sparks, flames. Moisture. Contact with incompatible materials.

**Incompatible Materials**

Strong oxidizing agents. Peroxides. Caustics. Metals.

**Hazardous Decomposition Products**

Carbon oxides are expected to be, under fire conditions, the primary hazardous decomposition products.

**Section 11: Toxicological Information**

**Information on routes of exposure**

**Ingestion:** May cause gastrointestinal irritation with nausea, vomiting and Diarrhea. May cause systemic toxicity with acidosis. Advanced stages can lead to respiratory failure, kidney failure, coma and death.

**Inhalation:** Inhalation of high concentrations may cause central nervous system effects characterized by nausea headache, dizziness, unconsciousness, and coma. Causes respiratory tract irritation. May cause narcotic effects in high concentrations. Vapors may cause dizziness or suffocation.

**Skin Contact:** Mildly irritating to the skin. May cause dermatitis by defatting the skin from prolonged or repeated contact.

**Eye Contact:** Causes serious eye irritation. Eye exposure to Ethanol generally causes transient pain, irritation, and reflex lid closure. A foreign-body sensation may persist for one to two days. Vapors produce transient stinging and tearing, but no apparent adverse effects. Transiently impaired perception of color may occur with acute ingestion or chronic alcoholism.

**Information on Toxicological Effects**

**Acute Toxicity (List all possible routes of exposure)**

**Oral**

Ethanol: LC50 (Rat): 10470 mg/Kg

Ethanol: LDLo (Human): 1400 mg/Kg

**Dermal**

No data available.

**Inhalation**

Ethanol: LC50 (Rat, 10 h): 20,000 mg/l

Ethanol: LC50 (Rat 4 h): 117-125 mg/l

**Repeated Dose Toxicity**

No data available.

**Skin Corrosion/Irritation**

Standard Draize skin test (rabbit) - Dose: 20 mg/24 hrs. Reaction: Moderate Repeated exposure may cause skin dryness or cracking.

**Serious Eye Damage/Eye Irritation**

Standard Draize eye test (rabbit) - Dose: 500 mg Reaction: Severe Dose: 500 mg/24 hrs. Reaction: Mild

**Respiratory/Skin Sensitization**

Not a skin sensitizer.

**Carcinogenicity**

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**US. National Toxicology Program (NTP) Report on Carcinogens**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Germ Cell Mutagenicity**

**In Vitro**

No mutagenic components identified.

**In Vivo**

No mutagenic components identified.

**Reproductive Toxicity**

May damage fertility or the unborn child. Reproductive toxicity - Human - female - Oral. Effects on Newborns - measured low appgar scores and showed signs of alcohol dependence.

**Specific Target Organ Toxicity – Single Exposure**

Central nervous system. Eyes. Respiratory tract irritation

**Specific Target Organ Toxicity – Repeated Exposure**

None known.

**Aspiration Hazard**

Not classified.

**Other Effects**

None known.

**Section 12: Ecological Information**

**Ecotoxicity**

**Acute Hazards to the Aquatic Environment**

**Fish**

No data available.

**Aquatic Invertebrates**

No data available.

**Toxicity to Aquatic Plants**

No data available.

**Chronic Hazards to the Aquatic Environment**

**Fish**

Ethanol: LC 50 (Carp (*Leuciscus idus melanotus*), 48 h): 8,140 mg/l Mortality

Ethanol: LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 13,480 mg/l Mortality

Ethanol: LC 50 (Rainbow trout, donaldson trout (*Oncorhynchus mykiss*), 96 h): 12,000 - 16,000 mg/l Mortality

Ethanol: LC50 (Freshwater Fish 24 h): 11200 mg/l

Ethanol: NOEC (Freshwater fish): 250 mg/l

**Aquatic Invertebrates**

Ethanol: LC 50 (Water flea (*Daphnia magna*), 48 h): 7,560 - 12,600 mg/l Mortality

Ethanol: LC 50 (Brine shrimp (*Artemia franchiscana*), 48 h): 25.5 mg/l Mortality

Ethanol: EC 50 (Water flea (*Daphnia obtusa*), 48 h): 10,100 - 11,200 mg/l Intoxication

Ethanol: EC50 (Freshwater invertebrate 48h) 5012 mg/l

**Toxicity to Aquatic Plants**

No data available.

**Persistence and Degradability**

**Biodegradation**

Expected to be readily biodegradable.

**BOD/COD Ratio**

No data available.

**Bioaccumulative Potential**

**Bioconcentration Factor (BCF)**

No data available on bioaccumulation.

**Partition Coefficient n-octanol / water (log Kow)**

No data available.

**Mobility in Soil**

The product is water soluble and may spread in water systems.

**Other Adverse Effects**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Section 13: Disposal Considerations

#### Disposal Instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Contaminated Packaging

Since emptied containers retain product residue, follow label warnings even after container is emptied.

### Section 14: Transportation Information

#### US Department of Transportation (DOT)

UN Number: UN1170  
UN Proper Shipping Name: Ethanol Solutions  
Technical Name: -  
Hazard Class: 3  
Subsidiary Hazard Risk: -  
Packing Group: II  
DOT Label/Placard Exemptions: Not determined  
Special Provisions: 172, IB2, T7, TP1, TP8, TP28  
Packaging Exceptions: 49CFR 173.150, 4b  
Packaging Non-Bulk: 49CFR 173.202  
Packaging Bulk: 49CFR 173.242  
Reportable Quantity (RQ): 1,000lb (454kg)  
Marine Pollutant: No  
Poison Inhalation Hazard: No  
Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.  
Emergency Response Guidebook (ERG) #: 127

*Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.*

### Section 15: Regulatory Information

#### US Federal Regulations

##### Toxic Substance Control Act (TSCA), Chemical Substance Inventory, Section 8(b)

This product or ingredient(s) are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

##### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substance List (40 CFR 302.4)

No chemical(s) in this material are subject to the reporting requirements of CERCLA.

##### Clean Air Act (CAA), Section 112(r)

No chemical(s) in this material are subject to the reporting requirements of CAA.

##### Emergency Planning and Community Right-To-Know Act (EPCRA)

###### EPCRA 302 Extremely Hazardous Substance

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 302.

###### EPCRA 304 Emergency Response Notification

No chemical(s) in this material are subject to the reporting requirements of SARA Title III, Section 304.

###### EPCRA 311/312 Emergency and Hazardous Materials Reporting

Fire Hazard: Yes  
Sudden Release of Pressure: No  
Reactive: No  
Acute (Immediate) Health Hazard: Yes  
Chronic (Delayed) Health Hazard: Yes

###### EPCRA 313 Toxic Chemical Release Inventory (TRI) Reporting

This material does not contain any chemical(s) with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### US State Regulations

##### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.



*Important Note: Due to the changing nature of regulatory requirements, the information in this document should NOT be considered all-inclusive or authoritative. Users should make their own investigations to determine the suitability of the information for their particular purposes. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.*

## Section 16: Other Information

### Hazardous Materials Identification System (HMIS®) Classification

Health Hazard: 2

Chronic Health Hazard: \*

Flammability: 3

Physical Hazard: 0

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

### National Fire Protection Association (NFPA 704) Rating

Health Hazard: 2

Fire Hazard: 3

Reactivity Hazard: 0

Special: N/A

(Hazard Rating: 0 – Minimal / 1 – Slight / 2 – Moderate / 3 – Serious / 4 – Severe)

Prepared By: Regulatory Manager

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Revisions: -

### Key to Abbreviations and Acronyms

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

EC50 - Effective concentration, 50%

IDHL - Immediately Dangerous to Life and Health

Kg - Kilogram

l - Liter

lb - Pound

LC50 - Lethal Concentration, 50%

LD50 - Lethal Dose, 50%

mg - milligram

ml - milliliter

N/A - Not Applicable

N/D - Not Determined

PEL - Permissible Exposure Limit

REL - Recommended Exposure Limit

STEL - Short-term Exposure Limit

TWA - Time weighted average

ACGIH - American Conference of Industrial Hygienists

AIHA - American Industrial Hygiene Association

BEI - Biological Exposure Indices

CAS - Chemical Abstracts Service

DOT - US Department of Transportation

EPA - US Environmental Protection Agency

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

IARC - International Agency for Research on Cancer

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OSHA - US Occupational Health and Safety Administration

SARA - US EPA Superfund Amendments and Reauthorization Act

TSCA - US EPA Toxic Substances Control Act

UN - United Nations

### References

HSDB® - Hazardous Substances Data Bank

### Disclaimer

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