

SECTION 1: Product and company identification

Product name : Hospital Disinfectant
 Use of the substance/mixture : Aerosol Disinfectant
 Product code : 8421
 Company : Total Solutions
 P.O. Box 240014
 Milwaukee, WI 53224 - USA
 T (414) 354-6417
 Emergency number : Chemtrec: (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Flam. Aerosol 1 H222
 Press. Gas (Liq.) H280
 Skin Sens. 1 H317

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger
 Hazard statements (GHS-US) : Extremely flammable aerosol
 Contains gas under pressure; may explode if heated
 May cause an allergic skin reaction
 Precautionary statements (GHS-US) : Contaminated work clothing must not be allowed out of the workplace
 Pressurized container: Do not pierce or burn, even after use.
 Avoid breathing gas.
 Do not spray on an open flame or other ignition source.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Wear protective gloves.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
ethanol	(CAS-No.) 64-17-5	40 - 60	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
butane	(CAS-No.) 106-97-8	20 - 40	Flam. Gas 1, H220 Press. Gas (Comp.), H280
propane	(CAS-No.) 74-98-6	2.5 - 10	Flam. Gas 1, H220 Press. Gas (Comp.), H280

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A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
- First-aid measures after inhalation : Remove the victim into fresh air. If symptoms persist, call a physician.
- First-aid measures after skin contact : In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
- First-aid measures after eye contact : Rinse with water. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Get medical attention immediately if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects : Headache. May cause an allergic skin reaction. Dermatitis.
- Symptoms/effects after inhalation : Coughing. Headache.
- Symptoms/effects after skin contact : Skin rash/inflammation. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : May cause slight irritation.
- Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Keep watching the victim. Symptoms may be delayed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water fog. Alcohol-resistant foam. Dry chemical powder. Carbon dioxide.
- Unsuitable extinguishing media : Not applicable.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Contains gas under pressure; may explode if heated. May liberate toxic gases.
- Explosion hazard : Contents under pressure.

5.3. Advice for firefighters

- Firefighting instructions : In case of fire: Stop leak if safe to do so. Do not move the load if exposed to heat. Move containers away from the fire area if this can be done without risk. Cool laterally with water containers exposed to flames, even after the fire is extinguished. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
- Protection during firefighting : Face shield. Rubber boots. Gloves. Flame retardant protective clothing. helmet. Appropriate self-contained breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Protective equipment : Do not enter without an appropriate protective equipment. Advise local authorities if considered necessary. Do not touch spilled material. Ventilate the area thoroughly, especially low lying areas (basements, workpits etc). Extra personal protection: self-contained breathing apparatus. Do not breathe gas/vapor.
- Emergency procedures : Do not breathe gas. Evacuate unnecessary personnel. Keep upwind. Ventilate spillage area. Seal off low-lying areas.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection. Breathing apparatus. Do not attempt to take action without suitable protective equipment.
- Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

6.2. Environmental precautions

Avoid discharge to the environment. Do not allow into drains or water courses.

6.3. Methods and material for containment and cleaning up

- For containment : Eliminate every possible source of ignition. Prevent the product from entering drains or confined areas. Keep combustibles (wood, paper, oil, etc.) away from spilled material. vapors are heavier than air and may spread along floors. Stop leak if safe to do so. Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid. Isolate area until gas has dispersed. Collect spillage. Move the cylinder to a safe and open area if the leak is irreparable.
- Methods for cleaning up : Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Dispose as hazardous waste. Following product recovery, flush area with water.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Do not use if spray button is missing or defective. Pressurized container: Do not pierce or burn, even after use. Keep away from heat, sparks and flame.
- Precautions for safe handling : Avoid prolonged and repeated contact with skin. Intentional misuse by deliberately concentrating and inhaling may be harmful or fatal. Do not breathe gas/vapor/aerosol. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not spray on a naked flame or any incandescent material. Do not smoke while handling product. Ground/bond container and receiving equipment. Do not re-use empty containers. Avoid contact with skin and eyes. Use only outdoors or in a well-ventilated area. Observe normal hygiene standards. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not discharge the waste into the drain. Return of water into the container must be prevented. Keep container tightly closed.
- Hygiene measures : Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Pressurized container. Do not puncture, incinerate or crush. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge.
- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep cool. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50 °C/ 122 °F. Refrigerate.
- Incompatible products : Strong oxidizing agents.
- Incompatible materials : Heat sources.
- Storage temperature : < 49 °C
- Storage area : Aerosol 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propane (74-98-6)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	Simple Asphyxiant
OSHA	OSHA PEL (TWA) (mg/m ³)	1800 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
butane (106-97-8)		
ACGIH	ACGIH TWA (ppm)	1000 ppm
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	CNS impair
ethanol (64-17-5)		
ACGIH	ACGIH STEL (ppm)	1000 ppm
ACGIH	Remark (ACGIH)	URT irr
OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective goggles. Protective clothing.



- Consumer exposure controls : Use good personal hygiene practices.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Gas
- Appearance : Aerosol. Liquid.
- Odor : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.
Mixture contains one or more component(s) which have the following odour:
Alcohol odour. Pleasant odour
- Odor threshold : No data available
- pH : No data available
- pH solution : 10
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 115.3 °F Estimated
- Flash point : -20.2 °F Pensky-Martens Closed Cup Supplier estimated
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : 1.9 - 19 % Supplier
- Explosion limits : No data available
- Explosive properties : Not explosive.
- Oxidizing properties : Not oxidising.
- Vapor pressure : 101.3 kPa @70°F estimated
- Relative density : No data available
- Relative vapor density at 20 °C : No data available
- Specific gravity / density : 0.82 g/ml Supplier estimated
- Solubility : No data available
- Log Pow : No data available
- Log Kow : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Viscosity : No data available
- Viscosity, kinematic : < 0.00205 m²/s
- Viscosity, dynamic : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Aerosol containers are unstable at temperatures above 49°C. Avoid temperatures exceeding the flash point.

10.5. Incompatible materials

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

ethanol (64-17-5)	
LD50 oral rat	10740 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male/female, Experimental value)
LD50 dermal rabbit	> 16000 mg/kg (Rabbit, Literature study)
LC50 inhalation rat (mg/l)	117 - 125 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male/female, Experimental value)
ATE CLP (oral)	10740 mg/kg body weight

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified.

Respiratory or skin sensitization : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : Not classified.

Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified

Potential Adverse human health effects and symptoms : Allergic skin rash. Dermatitis.

Symptoms/effects after inhalation : Coughing. Headache.

Symptoms/effects after skin contact : Skin rash/inflammation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : May cause slight irritation.

Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

Likely routes of exposure : Skin and eye contact;Inhalation;Ingestion

SECTION 12: Ecological information

12.1. Toxicity

ethanol (64-17-5)	
LC50 fish 1	14200 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

12.2. Persistence and degradability

ethanol (64-17-5)	
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43

12.3. Bioaccumulative potential

ethanol (64-17-5)	
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Log Pow	-0.31 (Experimental value)

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ethanol (64-17-5)

Bioaccumulative potential

Not bioaccumulative.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste treatment methods : Contents under pressure. Do not puncture, incinerate or crush. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. . Dispose of contents/container to comply with local/regional/national regulations.
- Sewage disposal recommendations : Disposal must be done according to official regulations.
- Product/Packaging disposal recommendations : Dispose of contents/container to comply with local/regional/national regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

- Transport document description : UN1950 Aerosols flammable, (each not exceeding 1 L capacity), 2.1
- UN-No.(DOT) : UN1950
- Proper Shipping Name (DOT) : Aerosols
flammable, (each not exceeding 1 L capacity)
- Class (DOT) : 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
- Hazard labels (DOT) : 2.1 - Flammable gas



- Marine pollutant : Yes (IMDG only)



- DOT Packaging Non Bulk (49 CFR 173.xxx) : None
- DOT Packaging Bulk (49 CFR 173.xxx) : None
- DOT Special Provisions (49 CFR 172.102) : N82
- DOT Packaging Exceptions (49 CFR 173.xxx) : 306
- DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg
- DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg
- DOT Vessel Stowage Location : A
- DOT Vessel Stowage Other : 25 - Shade from radiant heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

Additional information

- Other information : When transported by ground, this product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.306. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may be required.

ADR

No additional information available

Transport by sea

- UN-No. (IMDG) : UN1950
- Proper Shipping Name (IMDG) : AEROSOLS
- Class (IMDG) : 2.1 - Flammable gases

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Air transport

UN-No. (IATA) : UN1950
Proper Shipping Name (IATA) : Aerosols, flammable
Class (IATA) : 2.1 - Gases : Flammable

SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Warning: Causes substantial, but temporary, eye injury. Do not get in eyes or on clothing. Wear protective eyewear. Thoroughly wash hands after using and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse

SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

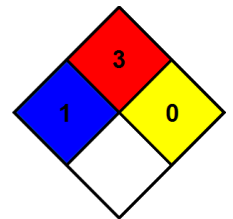
Full text of H-phrases:

H220	Extremely flammable gas
H225	Highly flammable liquid and vapour
H280	Contains gas under pressure; may explode if heated
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Prepared by: Technical Department

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