

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
 Trade name : Septihol® WFI Sterile Alcohol Solution
 Product code : 6250
 650 mL (22oz.) and 946 mL (32 oz.) Liquid Trigger Spray
 260 g (9.17oz.) Aerosol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Hard surface cleaner

1.3. Details of the supplier of the safety data sheet

STERIS Corporation
 P. O. Box 147, St. Louis, MO 63166, US
 Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)

1.4. Emergency telephone number

Emergency number : US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

650 mL (22oz.) and 946 mL (32 oz.) Liquid Trigger Spray

GHS-US classification

Flam. Liq. 2 H225
 Eye Irrit. 2 H319
 STOT SE 3 H336

260 g (9.17oz.) Aerosol

Flam. Aerosol 1 H222
 Eye Irrit. 2 H319
 STOT SE 3 H336
 Aerosols 1 H229

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapour
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

P210 - Keep away from heat, open flames, sparks. - No smoking
 P233 - Keep container tightly closed
 P240 - Ground/bond container and receiving equipment
 P241 - Use explosion-proof electrical equipment
 P261 - Avoid breathing mist, spray, vapours
 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
 P501 - Dispose of contents/container to Comply with applicable local, national and international regulation.

260 g (9.17oz.) Aerosol

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger
 H222 - Extremely flammable aerosol

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- Precautionary statements (CLP)
- : H229 – Pressurised container: May burst if heated
 - : H319 - Causes serious eye irritation
 - : H336 - May cause drowsiness or dizziness
 - : P210 - Keep away from heat, open flames, hot surfaces, sparks. No smoking
 - : P211 - Do not spray on an open flame or other ignition source
 - : P251 - Pressurized container: Do not pierce or burn, even after use
 - : P261 - Avoid breathing vapours, spray, mist
 - : P264 - Wash hands thoroughly after handling
 - : P271 - Use only outdoors or in a well-ventilated area
 - : P280 - Wear protective gloves/protective clothing and eye/face protection

2.3. Other hazards

260 g (9.17oz.) Aerosol

Contains gas under pressure; may explode if heated. Water-Alcohol blend

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	40 - 70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
260 g (9.17oz.) Aerosol (only):			
Nitrogen substance with national workplace exposure limit(s) (BE, ES, IE, PT)	(CAS No) 7727-37-9 (EC no) 231-783-9	Propellant	Compressed gas, H280

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.
- First-aid measures after skin contact : Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Seek medical attention if irritation develops.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Give water or milk if the person is fully conscious.

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

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness.
- Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation.
- Symptoms/injuries after eye contact : Causes eye irritation. tearing.
- Symptoms/injuries after ingestion : Ingestion may cause nausea and vomiting.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry powder. Water fog. Alcohol foam. carbon dioxide (CO2).
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Highly flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Evacuate the personnel away from the fumes.

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Protective equipment for firefighters	: Full protective flameproof clothing. Do not enter fire area without proper protective equipment, including respiratory protection. Wear positive pressure air supplied respirator if required by safe entry procedures.
Other information	: Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. Avoid breathing mist or vapor.
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6.1.1. For non-emergency personnel

Protective equipment	: Refer to section 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Small spills may be flushed with large amounts of water; larger spills should be collected for disposal. Prevent large quantities from entering sewers, watercourses or low areas.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No naked lights. No smoking. Use only non-sparking tools. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Do not spray into eyes. Keep away from heat and direct sunlight.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment. Ensure adequate ventilation. A washing facility/water for eye and skin cleaning purposes should be present.
Storage conditions	: Keep in fireproof place. Keep container tightly closed. Keep only in the original container in a cool well ventilated place.
Incompatible materials	: Strong oxidizing agents.
Heat and ignition sources	: Store away from excessive heat. Remove all sources of ignition. These can cause flammability/explosion hazards.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

8.2. Exposure controls

Appropriate engineering controls	: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation. Provide local exhaust or general room ventilation to minimize vapour concentrations.
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Personal protective equipment

: Avoid all unnecessary exposure. The following pictograms represent the minimum requirements for personal protective equipment. Personal protective equipment should be selected based upon the conditions under which this product is handled or used. Protective goggles. Protective clothing. Gloves.



Hand protection

: Wear protective gloves. rubber gloves.

Eye protection

: Chemical goggles or face shield.

Skin and body protection

: Wear suitable protective clothing. Wear protective shoes.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

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	: Liquid
Appearance	: Colorless liquid at low temperature or under pressure.
Colour	: Colourless.
Odour	: Alcohol odour.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 21 °C Closed cup
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.87 Specific Gravity
Solubility	: Water: completely soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions. Exposure to heat may cause bursting. Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases.

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10.6. Hazardous decomposition products

May release flammable gases. unburned hydrocarbons. Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Septihol® WFI Sterile Alcohol Solution	
LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (ppm)	> 5000 ppm/1h

Isopropyl alcohol (67-63-0)	
LD50 oral rat	4396 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50 inhalation rat (ppm)	16000 ppm (Exposure time: 8 h)
ATE (oral)	4396.000 mg/kg bodyweight
ATE (dermal)	12800.000 mg/kg bodyweight

Skin corrosion/irritation : Not classified
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified
Based on available data, the classification criteria are not met

Isopropyl alcohol (67-63-0)	
IARC group	3

Reproductive toxicity : Not classified
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified
Based on available data, the classification criteria are not met

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Frequent or prolonged contact with skin may cause dermal irritation.

Symptoms/injuries after eye contact : Causes eye irritation. tearing.

Symptoms/injuries after ingestion : Ingestion may cause nausea and vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Isopropyl alcohol (67-63-0)	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

12.2. Persistence and degradability

Septihol® WFI Sterile Alcohol Solution	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

Septihol® WFI Sterile Alcohol Solution	
Bioaccumulative potential	Not established.

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Isopropyl alcohol (67-63-0)

Log Pow	0.05 (at 25 °C)
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

14.2. UN proper shipping name

650 mL (22oz.) and 946 mL (32 oz.) Liquid

Trigger Spray

Proper Shipping Name	: ISOPROPANOL SOLUTION
Transport document description	: UN 1219, ISOPROPANOL SOLUTION, LTD. QTY.,3, II

260 g (9.17oz.) Aerosol

Proper Shipping Name	: AEROSOLS
Transport document description	: UN 1950, AEROSOLS, 2.1, LTD. QTY., DOT-SP-14440

14.3. Additional information

650 mL (22oz.) and 946 mL (32 oz.) Liquid

Trigger Spray

Class (UN)	:	3
Class (IATA)	:	3
Class (IMDG)	:	3

260 g (9.17oz.) Aerosol

Class (UN)	:	2
Class (IMDG)	:	2
Hazard labels (UN)	:	2.1

14.4. Packing group

650 mL (22oz.) and 946 mL (32 oz.) Liquid

Trigger Spray

Packing group (UN)	: II
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260 g (9.17oz.) Aerosol

Packing group (UN)	: NA
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14.5. Environmental hazards

Other information : No supplementary information available

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14.6. Special precautions for user

650 mL (22oz.) and 946 mL (32 oz.) Liquid

Trigger Spray

Special transport precautions

: Road/Rail: ADR/RID Class: UN 1219, Isopropanol, 3, Flammable Liquid, PG II, LTD QTY (European labeled 16 fl. oz. size only).
Sea: (US and Canada): (16 fl. oz. and 32 fl. oz.) UN 1219, Isopropanol, 3, Flammable Liquid, PG II, LTD QTY (1 gal.): UN 1219, Isopropanol, 3, Flammable Liquid, PG II
Air: All package sizes not approved for air.

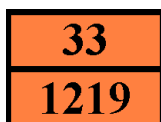
14.6.1 Overland transport

650 mL (22oz.) and 946 mL (32 oz.) Liquid Trigger Spray

Hazard identification number (Kemler No.) : 33

Classification code (ADR) : F1

Orange plates :



Special provision (ADR) : 601

Transport category (ADR) : 2

Tunnel restriction code : D/E

Excepted quantities (ADR) : E2

EAC code : •2YE

260 g (9.17oz.) Aerosol

Classification code (UN) : 5F

Special provision (ADR) : 190, 327, 344, 625

Transport category (ADR) : 2

Tunnel restriction code : D

Limited quantities (ADR) : 1L

Excepted quantities (ADR) : E0

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

Isopropyl alcohol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting

1.0 % (only if manufactured by the strong acid process, no supplier notification)

15.2. International regulations

Not applicable.

15.3. US State regulations

No additional information available

SECTION 16: Other information

Sources of Key data : None.

Other information : None.

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Full text of H-phrases: see section 16:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

NFPA health hazard

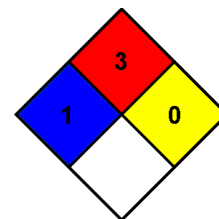
: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard

: 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity

: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



SDS US (GHS HazCom 2012)

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.