

1. Identification

Product name: CaviCide

Recommended use: Hard surface cleaner and disinfectant, Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Restrictions on use: None known

Manufacturer: METREX® RESEARCH
28210 Wick Road
Romulus, MI., 48174-U.S.A.
T 1-800-841-1428 (Customer Service)

Emergency number: (Chemical Spills, Leaks, Fire, Exposure or Accident only):
CHEMTREC 1-800-424-9300 (in the US), 1-703-527-3887 (Outside the US)

Issue date: 05/17/2022

2. Hazard(s) identification

Classification:

| Physical hazards | Health hazards | Environmental hazards |
|------------------------------|----------------------------|--|
| Flammable liquids Category 4 | Eye irritation Category 2B | Hazardous to the aquatic environment - Acute Hazard Category 3 Hazardous to the aquatic environment - Chronic Hazard Category 3 |

GHS US labeling:

Warning!

| Hazard statements (GHS US) | Precautionary statements (GHS US) |
|---|--|
| H227 - Combustible liquid H320 - Causes eye irritation H412 - Harmful to aquatic life with long lasting effects | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P264 - Wash hands thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear eye protection. 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 Water spray or fog, alcohol resistant foam, dry extinguishing powder, carbon dioxide (CO2) to extinguish. P403+P235 - Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to hazardous or |

special waste collection point, in accordance with local, regional, national and/or international regulation.

3: Composition/Information on ingredients

| Component | CAS-No. | Amount (%) |
|--|----------|------------|
| Propan-2-ol, isopropyl alcohol, isopropanol | 67-63-0 | 17.20 |
| 2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve | 111-76-2 | 1 – 5 |
| Benzethonium Chloride | 121-54-0 | 0.28 |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

4. First-aid measures

Inhalation: Move the affected person to fresh air. Get medical attention if symptoms occur.

Skin: Gently wash with plenty of soap and water. Seek medical attention if irritation develops.

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: Rinse mouth thoroughly with water. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

Symptoms/effects: May cause moderate irritation to the eyes. Repeated exposure may cause skin dryness or cracking. Inhalation of vapors may cause respiratory irritation.

Immediate medical attention and special treatment, if necessary: Not required.

5. Fire-fighting measures

Suitable extinguishing media: Use dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable extinguishing media: None.

Fire hazard: Combustible liquid. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. On combustion releases: Carbon oxides (CO, CO₂). Nitrogen oxides. Amines. chlorine oxides.

Special protective equipment and precautions for fire-fighters: In case of fire: Stop leak if safe to do so. Cool down the containers exposed to heat with a water spray. Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Remove ignition sources. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing. Ventilate area.

Methods and material for containment and cleaning up: Stop leak if safe to do so. Remove all sources of ignition. Use non-sparking tools. Absorb and/or contain spill with inert material, then place in suitable container. Notify authorities if product enters sewers or public waters. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with eyes, skin and clothing. Wear personal protective equipment. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing mist, vapors. Ensure adequate ventilation. Refer to product label for additional information on use and handling. Follow all SDS precautions in Section 13 when handling empty containers.

Storage conditions: Store at room temperature. Store in dry, well-ventilated area. Keep away from heat and direct sunlight. Keep container closed when not in use. Do not contaminate water, food, or feed by storage or disposal.

8. Exposure controls/personal protection

| Exposure guidelines: | |
|--|--|
| Propan-2-ol, isopropyl alcohol, isopropanol | 980 mg/m ³ TWA OSHA PEL; 400 ppm TWA OSHA PEL; 200 ppm TWA ACGIH TLV; 400 ppm STEL ACGIH TLV; |
| Benzethonium Chloride | None established. |
| 2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve | 240 mg/m ³ TWA OSHA PEL; 50 ppm TWA OSHA PEL; 20 ppm TWA ACGIH TLV; |

Appropriate engineering controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Environmental exposure controls: Avoid release to the environment.

Personal protective equipment:

Hand protection: In case of repeated or prolonged contact wear gloves

Eye protection: Wear safety goggles or other eye protection to prevent eye contact.

Skin and body protection: Wear suitable protective clothing

Respiratory protection: No respiratory protection needed under normal use conditions. In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

9. Physical and chemical properties

Appearance: Clear. Liquid.

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|-----------------------|--|--|-----------------------------------|
| Physical state | : Liquid | Relative evaporation rate (butyl acetate=1) | : No data available |
| Color | : Colorless | Flammability (solid, gas) | : Not applicable. |
| Odor | : Alcohol | Vapor pressure | : 43.3 mm Hg @ 20°C (Isopropanol) |
| Odor threshold | : 0.001 ppm Ethylene glycol monobutyl ether (EGBE) | Relative vapor density at 20 °C | : No data available |
| pH | : 8.5 – 12.49 | Relative density | : 0.972 |
| Melting point | : Not applicable | Solubility | : Soluble in water. |
| Freezing point | : Not applicable | | |
| Boiling point | : No data available | | |
| Flash point | : 64 °C (147.2 °F) | | |

Partition coefficient n-octanol/water (Log Pow) : No data available

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosion limits : Lower explosive limit (LEL): 2 vol % (Isopropanol)
Upper explosive limit (UEL): 12.7 vol % (Isopropanol)

Explosive properties : No data available

Oxidizing properties : No data available

VOC content : 20 %

10. Stability and reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials : Oxidizing agents, reducing agents, acids, bases.

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

11. Toxicological information

Inhalation: At high concentrations, the vapors can be irritating to the respiratory system. High concentration of vapors may induce: headache, nausea, dizziness.

Skin: Repeated or prolonged skin contact may cause irritation. Repeated exposure may cause skin dryness or cracking.

Eyes: May cause moderate irritation, including burning sensation, tearing, redness or swelling.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms: Prolonged overexposure to ethylene glycol monobutyl ether may affect liver, kidneys, blood, lymphatic system or central nervous system.

Carcinogenicity: Not classified

Propan-2-ol, isopropyl alcohol, isopropanol: IARC 3 - Not classifiable;

Benzethonium Chloride: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve: IARC 3 - Not classifiable;

Germ cell mutagenicity: Not classified

Reproductive toxicity: Not classified

Propan-2-ol, isopropyl alcohol, isopropanol: Not classified

Numerical measures of toxicity: Oral rat LD50- > 5000 mg/kg; Dermal rabbit LD50- > 2000 mg/kg;

The following are the toxicity values for the components:

Propan-2-ol, isopropyl alcohol, isopropanol: Oral rat LD50- 5840 mg/kg; Dermal rabbit LD50- 16.4 ml/kg; Inhalation rat LC50- 1666.66 ppm/1h

Benzethonium Chloride: Oral rat LD50- 295 mg/kg;

| | |
|---|---|
| 2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve: | Oral rat LD50- 1746 mg/kg; Dermal rat LD50- > 2000 mg/kg; |
| Skin corrosion/irritation | This product was tested and based on available data, the classification criteria are not met. pH: 8.5 – 12.49 |
| Serious eye damage/irritation | Causes eye irritation. On basis of test data pH: 8.5 – 12.49 |
| Respiratory or skin sensitization | No sensitizing reaction was observed for guinea pigs. This product was tested and based on available data, the classification criteria are not met. |
| STOT-single exposure | Not classified |
| STOT-repeated exposure | Not classified |

12. Ecological information

Ecology - general: Harmful to aquatic life with long lasting effects.

Ecotoxicity:

Propan-2-ol, isopropyl alcohol, isopropanol 10000 mg/L Fish LC50; 10000 mg/L Daphnia EC50

Benzethonium Chloride 1.15 mg/L Fish LC50; 0.22 mg/L Daphnia EC50; 0.3 mg/L Algae ErC50

2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve 1474 mg/L Fish LC50; 1800 mg/L Daphnia EC50

Persistence and degradability:

Propan-2-ol, isopropyl alcohol, isopropanol: No data available
Readily biodegradable.

Bioaccumulative potential:

Propan-2-ol, isopropyl alcohol, isopropanol: No data available
BCF Fish - 3; Log KOW0.05

Mobility in soil:

No data available

Other adverse effects:

No data available

13. Disposal considerations

Regional legislation (waste): Dispose of in accordance with applicable federal, state, and local regulations.

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in accordance with hospital policy.

14. Transport information

Department of Transportation (DOT)

Not regulated for transport

Transport by sea

Not regulated for transport

Air transport

Not regulated for transport

15. Regulatory information

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

FIFRA Labeling:

Keep Out Of Reach of Children

CAUTION

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Physical and Chemical Hazards: Combustible. Do not use or store near heat or open flame.

SARA Section 313 - Emission Reporting:

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|--|----------|--------|
| 2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve | 111-76-2 | 1 – 5% |
|--|----------|--------|

CERCLA Section 103:

This product is not subject to reporting under CERLCA. However, many states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA 302:

Not applicable

SARA Section 311/312 Hazard Classes: Refer to Section 2 for OSHA Hazard Classification.

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

INTERNATIONAL INVENTORIES

- Australia AICS:** All the components are listed.
- Canada DSL:** All the components are listed.
- China IECSC:** All the components are listed.
- EU EINECS:** All the components are listed.
- Japan ENCS:** All the components are listed.
- Korea KECL:** All the components are listed.
- New Zealand:** All the components are listed.
- Philippines PICCS:** All the components are listed.

Taiwan CSNN All the components are listed.

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| 16. Other information |
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Revision date : 05/17/2022
Supersedes date : 11/10/2021
Revision History : Updated sections 1, 9, 11,12 and 15.

NOTICE

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