

1. Identification

Product name: CaviWipes™ 2.0

Recommended use: Hard surface cleaner and disinfectant wipe

Restrictions on use: None known

Manufacturer: METREX® RESEARCH
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Romulus, MI., 48174-U.S.A.
T 1-800-841-1428 (Customer Service)
safety@kavokerr.com

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)

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2. Hazard(s) identification

Classification:

Physical hazards	Health hazards	Environmental hazards
Flammable liquids Category 4	Not classified	Not classified

GHS US labeling:

Warning!

Hazard statements (GHS US)	Precautionary statements (GHS US)
H227 - Combustible liquid	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 - Wear eye protection. P370+P378 - In case of fire: Use Dry chemical, CO ₂ , alcohol-resistant foam or waterspray 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	10-20
2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve	111-76-2	1 – 5
Didecyldimethylammonium chloride	7173-51-5	0.17
Benzalkonium chloride	68424-85-1	0.11

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

4. First-aid measures

Inhalation: No specific first aid measures are required.

Skin: No specific first aid measures are required.

Eyes: No first aid should be needed. Rinse eyes with water as a precaution.

Ingestion: Ingestion is unlikely for solid products. No first aid is required for small amounts transferred from hands to mouth.

Symptoms/effects: May cause minor eye irritation. Repeated or prolonged skin contact may cause 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: This product contains a flammable liquid saturant and will burn under fire conditions. However, this product contains only a small amount of liquid per container, therefore the risk of creating a fire hazard is minimal. Combustion products may include the following: carbon oxides (CO, CO₂) (carbon monoxide, carbon dioxide) nitrogen oxides (NO, NO₂ etc.). Sulfur oxides (SO_x). Aldehydes. hydrogen chloride.

Special protective equipment and precautions for fire-fighters: Do not attempt to take action without suitable protective equipment.

6. Accidental release measures

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

Methods and material for containment and cleaning up: Do not re-use towelette. Pick up wipe and place into a container for disposal. Do not flush down sewers. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands with water and soap. Keep container closed when not in use. Refer to product label for additional information on use and handling.

Storage conditions: Store in dry, cool, well-ventilated area. Protect container from physical damage. Keep containers closed when not in use to prevent moisture loss.

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;
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;
Benzalkonium chloride	None established.
Didecyldimethylammonium chloride	None established.

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

Personal protective equipment:

Hand protection: No personal protective equipment required under normal use. In case of repeated or prolonged contact wear gloves

Eye protection: No personal protective equipment required under normal use

Skin and body protection: No personal protective equipment required under normal use

Respiratory protection: No respiratory protection needed under normal use conditions

9. Physical and chemical properties

Appearance: Clear liquid on a white towelette.

Physical state	: Solid	Solubility	: Soluble in water.
Color	: Colorless	Partition coefficient n-octanol/water (Log Pow)	: No data available
Odor	: Alcohol	Auto-ignition temperature	: No data available
Odor threshold	: No data available	Decomposition temperature	: No data available
pH	: 6.5 – 8.5 (Saturant)	Viscosity, kinematic	: No data available
Melting point	: Not applicable	Viscosity, dynamic	: No data available
Freezing point	: No data available	Explosion limits	: Lower explosive limit (LEL): 2 vol % Upper explosive limit (UEL): 12.7 vol %
Boiling point	: No data available	Explosive properties	: No data available
Flash point	: 87 °C (Saturant) (188.6 °F)	Oxidizing properties	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available		
Flammability (solid, gas)	: Not applicable.		
Vapor pressure	: 43.3 mm Hg @ 20°C (Isopropanol)		
Relative vapor density at 20 °C	: 2.1 (Isopropanol)		
Relative density	: 0.9734 (Saturant)		

No additional information available

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 heat and flame.

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 minor eye irritation.

Ingestion: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

Chronic symptoms: None known.

Carcinogenicity:	Not classified
Propan-2-ol, isopropyl alcohol, isopropanol:	IARC 3 - Not classifiable;
2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve:	IARC 3 - Not classifiable;
Benzalkonium chloride:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
Didecyldimethylammonium chloride:	This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.
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 (US EPA OCSPP 870.1100); Dermal rat LD50- > 5050 mg/kg (US EPA OCSPP 870.1200); Inhalation rat LC50- >2.07 mg/l/4h (dust/mist) (US EPA OCSPP 870.1300)

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
2-Butoxyethanol, ethylene glycol monobutyl ether, butyl cellosolve:	Oral rat LD50- 1746 mg/kg; Dermal rat LD50- > 2000 mg/kg;
Benzalkonium chloride:	Oral rat LD50- 397.5 mg/kg; Dermal rabbit LD50- 3412.5 mg/kg;
Didecyldimethylammonium chloride:	Oral rat LD50- 238 mg/kg; Dermal rabbit LD50- ≈ 3342 mg/kg;
Skin corrosion/irritation	This product was tested and based on available data, the classification criteria are not met. pH: 6.5 – 8.5 (Saturant)
Serious eye damage/irritation	This product was tested and based on available data, the classification criteria are not met. pH: 6.5 – 8.5 (Saturant)
Respiratory or skin sensitization	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: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

CaviWipes™ 2.0

LC50 - Fish [1]	172 mg/l Pimephales promelas (Fathead minnow)
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Ecotoxicity:

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

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

Benzalkonium chloride 0.515 mg/L Fish LC50; 0.016 mg/L Daphnia EC50; 0.049 mg/L Algae ErC50

Didecyltrimethylammonium chloride 0.97 mg/L Fish LC50; 0.057 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 as hazardous waste with infectious risk because wipes are often contaminated by materials considered biological hazards once used. The danger from the wipe comes from the fact that – once used – it contains dead microorganisms and biological dirt or blood.

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

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

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%
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CERCLA Section 103:

This product is not subject to reporting under CERCLA. 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.

16. Other information

Revision date : 11/22/2021

NOTICE

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date of preparation, however, METREX® RESEARCH makes no warranty with respect to the accuracy or suitability of the recommendations, and assumes no liability to any use thereof.