

SAFETY DATA SHEETS

This SDS packet was issued with item:

073070588

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

073070596 073070638 078661981



MATERIAL SAFETY DATA SHEET

1. Product And Company Identification

Product Name: CaviWipes®

Manufacturer: METREX® RESEARCH
28210 Wick Rd
Romulus, MI 48174
U.S.A.

Information Phone Number: 1-800-841-1428 (Customer Service)

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

MSDS Date Of Preparation/Revision: 7/9/2012

Product Use: Hard surface cleaner and disinfectant wipe.

EPA Registration No: 46781-8

2. Hazards Identification

Clear liquid with an alcohol odor on a white towelette.

EMERGENCY OVERVIEW

Liquid saturant is a flammable liquid and vapor. Causes moderate eye irritation. May cause mild skin irritation. Harmful if absorbed through the skin. Inhalation of concentrated vapors may cause irritation of the eyes, nose and throat and dizziness and drowsiness. Prolonged overexposure to ethylene glycol monobutyl ether may affect liver, kidneys, blood, lymphatic system or central nervous system.

3. Composition/Information On Ingredients

The following composition refers to the liquid saturant

Component	CAS No.	Amount
Isopropanol	67-63-0	17.2%
Ethylene Glycol Monobutyl Ether (2-Butoxyethanol)	111-76-2	1-5%
Diisobutylphenoxyethoxyethyl dimethylbenzyl ammonium chloride	121-54-0	0.28%
Water	7732-18-5	70-80%

4. First Aid Measures

Inhalation: Move to fresh air if effects occur and seek medical attention if effects persist.

Skin Contact: Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.



Eye Contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Ingestion: If liquid is swallowed, get medical advice by calling a Poison Control Center or hospital emergency room. If advice is not available, take victim and product container to the nearest emergency treatment center or hospital. Do not induce vomiting. Do not attempt to give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Extinguishing Media: Use water spray or fog, alcohol-resistant foam, carbon dioxide or dry chemical. Cool fire exposed containers with water.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Unusual Fire Hazards: Liquid saturant is a flammable liquid and vapor. Flammable vapors may collect in confined areas if large amounts are used.

Hazardous Combustion Products: Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides, amines, chlorine and hydrogen chloride.

6: Accidental Release Measures

Eliminate all ignition sources. Ventilate area. Use explosion-proof equipment if large amounts are released. Wear appropriate protective clothing and equipment (See Section 8). Collect spilled liquid material with an inert absorbent material and collect spilled wipes and place in appropriate, labeled container for disposal. Do not reuse towelette. Refer to Section 13 for disposal advice.

7. Handling and Storage

Avoid contact with eyes. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Liquid saturant is a flammable liquid and vapor. Keep away from heat, sparks, open flames and all other sources of ignition. Keep containers closed when not in use. Do not reuse towelette.

Store in a cool, well ventilated area away from heat, oxidizers and all sources of ignition.



8. Exposure Controls / Personal Protection

Exposure Limits

Chemical	Exposure Limit
Isopropanol	200 ppm TWA, 400 ppm STEL ACGIH TLV 400 ppm TWA OSHA PEL
Ethylene Glycol Monobutyl Ether (2-Butoxyethanol)	20 ppm TWA ACGIH TLV 50 ppm skin TWA OSHA PEL
Diisobutylphenoxyethoxyethyl dimethyl benzylammonium chloride	None Established

Ventilation: General ventilation should be adequate for normal use. For operations where the exposure limits may be exceeded, mechanical ventilation such as local exhaust may be needed to minimize exposure.

Respiratory Protection: None under normal use conditions with adequate ventilation. For operations where the occupational exposure limits are exceeded, a NIOSH/MSHA approved respirator with an organic vapor cartridges or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Gloves: Impervious gloves such as butyl rubber or nitrile are recommended for operations which may result in prolonged or repeated skin contact.

Eye Protection: None required for normal use. If liquid splashing is possible, wear splash proof goggles to prevent eye contact.

Other Protective Equipment/Clothing: None required for normal use. Wear protective clothing if needed to avoid prolonged/repeated skin contact. Suitable washing and eye flushing facilities should be available in the work area. Contaminated clothing should be removed and laundered before re-use.

9. Physical and Chemical Properties

Appearance And Odor: Clear liquid with an alcohol odor on a white towelette.
The following data applies to the liquid saturant.

Boiling Point:	Not Determined	Specific Gravity:	0.972
Solubility in Water:	Complete	pH:	11.0 -12.49
Vapor Pressure:	43.3 mmHg @ 20°C (isopropanol)	Vapor Density:	2.1 (isopropanol)
Percent Volatile:	>95%	Melting/Freezing Point:	Not Determined
Coefficient of Water/Oil Distribution:	Not Determined		
Flash Point:	28.3°C (83°F)	Flammable Limits:	LEL: 2% UEL: 12.7%

10. Stability and Reactivity

Stability: Stable

Conditions To Avoid: Heat, sparks, flames and all other sources of ignition.



Incompatibility: Strong oxidizing agents, acids and strong alkalis.

Hazardous Decomposition Products: Thermal decomposition will produce carbon monoxide, carbon dioxide, nitrogen oxides, amines, chlorine and hydrogen chloride.

Hazardous Polymerization: Will not occur.

11. Toxicological Information

Potential Health Effects:

The following applies to the liquid saturant. The towelette is not hazardous.

Acute Hazards:

Inhalation: May cause irritation of the nose, throat and upper respiratory tract. High vapor concentrations may produce nausea, vomiting, headache, dizziness, drowsiness, weakness, fatigue, narcosis and possible unconsciousness. Not acutely toxic in rats.

Skin Contact: Prolonged or repeated exposure may cause mild irritation. No signs of toxicity or irritation were observed in a dermal toxicity study in rabbits. Non-irritating in a primary irritation study with rabbits. Negative in a skin sensitization study with guinea pigs.

Eye Contact: May cause irritation with tearing, redness and pain. Moderate irritant in an eye irritation study with rabbits. Effects reversed in 7 days.

Ingestion: Ingestion may cause gastrointestinal disturbances and central nervous system effects such as headache, dizziness, drowsiness and nausea. Not acutely toxic in rats.

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

Medical Conditions Aggravated By Exposure: Due to its defatting properties, isopropyl alcohol may aggravate an existing skin condition.

Carcinogen: None of the components is listed as a carcinogen or potential carcinogen by IARC, NTP, ACGIH, or OSHA.

Acute Toxicity Values for CaviWipes:

LD50 Oral Rat >5000 mg/kg

LD50 Dermal Rabbit >2000 mg/kg

LC50 inhalation LC50 rat >2.08 mg/L

12. Ecological Information

This product is not classified as aquatically toxic based on the GHS criteria for aquatic toxicity.

Toxicity:

Isopropanol: LC50 fathead minnows 11,130 mg/L/48 hr; LC50 brown shrimp 1400 mg/L/48 hr
Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride: LC50 pimephales promelas 1.6 mg/L/96 hr, LC50 leptomis macrochirus 1.4 mg/L/96 hr.

Persistence and degradability: Isopropanol and 2-butoxyethanol are readily biodegradable in screening tests. Diisobutylphenoxyethoxyethyl dimethylbenzylammonium chloride is not readily



biodegradable.

Bioaccumulative Potential: Isopropanol has an estimated BCF of 3 suggesting that the potential for bioaccumulation is low.

Mobility in Soil: Isopropanol is expected to have very high mobility in soil.

13. Disposal Considerations

Do not contaminate water, food, or feed by storage and disposal.

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

Towelette Disposal: Do not reuse towelette. Dispose of used towelette in trash. Do not flush wipes down toilet.

14. Transport Information

U.S. DOT Hazard Classification

Proper Shipping Name: Not Regulated per alcohol exception (49CFR 173.150(e))

Technical Name: N/A

UN Number: N/A

Hazard Class/Packing Group: N/A

Labels Required: N/A

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR 171.8.

IMDG Code Shipping Classification

Proper Shipping Name: Alcohols, n.o.s. (Isopropanol)

UN Number: UN1987

Hazard Class: 3

Packing Group: III

Labels Required: Flammable Liquid (Class 3)

Placards Required: Class 3

Not classified as a marine pollutant

ICAO Air Transport Classification

Proper Shipping Name: Alcohols, n.o.s. (Isopropanol)

ID Number: UN1987

Hazard Class: 3

Packing Group: III

Labels Required: Class 3

15. Regulatory Information

EPA SARA 311/312 Hazard Classification: Fire Hazard, Acute Health, Chronic Health

EPA SARA 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Ethylene Glycol Monobutyl Ether (Glycol Ether) 1-5%



Protection Of Stratospheric Ozone: This product is not known to contain or to have been manufactured with ozone depleting substances as defined in 40 CFR Part 82, Appendix A to Subpart A.

CERCLA SECTION 103: This product is not subject to CERCLA reporting requirements; however, many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

EPA TSCA Inventory: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

16. Other Information

NFPA Rating: Fire: 3

Health: 2

Instability: 0

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.

CaviWipes

Safety Data Sheet

1. Identification

Product name: CaviWipes

Description: Disinfecting Towelettes

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: 06/29/2022

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.

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

VOC content : 20 %

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

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%
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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.

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.

16. Other information

Revision date	: 06/29/2022
Supersedes date	: 05/17/2022
Revision History	: Updated section 1.

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.