

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : CaviWipes™ 2.0

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Hard surface cleaner and disinfectant wipe
Restrictions on use : None known

1.4. Supplier's details

Manufacturer

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

1.5. Emergency phone number

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)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquid, Category 4 H227 Combustible liquid.
Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : H227 - Combustible liquid
Precautionary statements (GHS US) : 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, CO2, alcohol-resistant foam or waterspray to extinguish.
P403 - Store in a well-ventilated place.
P501 - Dispose of contents and container to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Isopropanol	CAS-No.: 67-63-0	10-20
2-Butoxyethanol	CAS-No.: 111-76-2	1-5
Didecyldimethylammonium chloride	CAS-No.: 7173-51-5	0.17
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	CAS-No.: 68424-85-1	0.11

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

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: No specific first aid measures are required.
First-aid measures after skin contact	: No specific first aid measures are required.
First-aid measures after eye contact	: No first aid should be needed. Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Ingestion is unlikely for solid products. No first aid is required for small amounts transferred from hands to mouth.

4.2. Most important symptoms/effects, acute and delayed

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.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Not required.
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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray or alcohol-resistant foam.
Unsuitable extinguishing media	: None.

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Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

5.2. Specific hazards arising from the chemical

- 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.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂). Nitrogen oxides. Sulfur oxides (SO_x). Aldehydes. hydrogen chloride.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Cool down the containers exposed to heat with a water spray.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources.
- For non-emergency personnel**
- Emergency procedures : Avoid contact with skin and eyes. Wear suitable protective clothing.
- For emergency responders**
- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

- Methods for cleaning up : Do not re-use towelette. Pick up wipe and place into a container for disposal. Do not flush down sewers.
- Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with eyes. Keep container closed when not in use. Keep away from open flames, hot surfaces and sources of ignition. Refer to product label for additional information on use and handling.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including incompatibilities

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

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Isopropanol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH® TLV® TWA	491 mg/m ³
	200 ppm
ACGIH® TLV® STEL	984 mg/m ³
	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022
USA - ACGIH - Biological Exposure Indices	
Local name	2-Propanol
BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OSHA PEL (TWA)	980 mg/m ³
	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	Isopropyl alcohol
Cal/OSHA PEL (OEL TWA)	980 mg/m ³
	400 ppm
Cal/OSHA STEL	1225 mg/m ³
	500 ppm
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	Isopropyl alcohol
NIOSH REL 10h TWA	400 ppm
NIOSH REL (STEL)	500 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))
2-Butoxyethanol (111-76-2)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE)
ACGIH® TLV® TWA	97 mg/m ³
	20 ppm

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Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

2-Butoxyethanol (111-76-2)	
Remark (ACGIH)	TLV® Basis: Eye & URT irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2025
USA - ACGIH - Biological Exposure Indices	
Local name	2-Butoxyethanol (EGBE)
BEI (BLV)	200 mg/g Kreatinin Parameter: Butoxyacetic acid (BAA) - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	2-Butoxyethanol
OSHA PEL (TWA)	240 mg/m ³ 50 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - Cal/OSHA - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE) [Glycol monobutyl ether]
Cal/OSHA PEL (OEL TWA)	97 mg/m ³ 20 ppm
Remark (Cal/OSHA)	S - Skin notation and Protecting Clothing
Regulatory reference	California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1)
USA - NIOSH - Occupational Exposure Limits	
Local name	2-Butoxyethanol
NIOSH REL 10h TWA	5 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

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

8.3. Individual protection measures, such as 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

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Clear liquid on a white towelette.
Color	: Colorless
Odor	: Alcohol
Odor threshold	: No data available
pH	: 6.5 – 8.5 (Saturant)
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 87 °C (188.6 °F) (Saturant)
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)
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: Lower explosion limit: 2 vol % Upper explosion limit: 12.7 vol %
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat and flame.

10.5. Incompatible materials

Oxidizing agents, reducing agents, acids, bases.

10.6. Hazardous decomposition products

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

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

CaviWipes™ 2.0	
LD50 oral rat	> 5000 mg/kg (US EPA OCSPP 870.1100)
LD50 dermal rat	> 5050 mg/kg (US EPA OCSPP 870.1200)

Isopropanol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 oral	4384 mg/kg
LD50 dermal rabbit	12800 mg/kg
LC50 Inhalation - Rat [ppm]	1666.66 ppm/1h

2-Butoxyethanol (111-76-2)	
LD50 oral rat	1746 mg/kg
LD50 oral	1414 mg/kg
LD50 dermal rat	> 2000 mg/kg bw/day

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LD50 oral rat	397.5 mg/kg
LD50 dermal rabbit	3412.5 mg/kg

Didecyltrimethylammonium chloride (7173-51-5)	
LD50 oral rat	238 mg/kg
LD50 dermal rabbit	≈ 3342 mg/kg

Skin corrosion/irritation : Not classified
pH: 6.5 – 8.5 (Saturant)

Serious eye damage/irritation : Not classified.
pH: 6.5 – 8.5 (Saturant)

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Isopropanol (67-63-0)	
IARC group	3 - Not classifiable

2-Butoxyethanol (111-76-2)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

Isopropanol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
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.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

CaviWipes™ 2.0	
LC50 - Fish [1]	172 mg/l Pimephales promelas (Fathead minnow)
Isopropanol (67-63-0)	
LC50 - Fish [1]	10000 mg/l Pimephales promelas (Fathead minnow)
EC50 - Crustacea [1]	1000 mg/l
LC50 - Fish [2]	9640 mg/l Pimephales promelas (Fathead minnow)
ErC50 algae	1000 mg/l
NOEC chronic crustacea	100 mg/l
2-Butoxyethanol (111-76-2)	
LC50 - Fish [1]	1474 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 - Crustacea [1]	≈ 1800 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	911 mg/l Pseudokirchneriella subcapitata
EC50 72h - Algae [2]	1840 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	100 mg/l Daphnia magna (Water flea)
NOEC chronic fish	> 100 mg/l Danio rerio (Zebrafish)
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
LC50 - Fish [1]	0.515 mg/l Lepomis macrochirus (Bluegill)
EC50 - Crustacea [1]	0.016 mg/l Daphnia magna (Water flea)
ErC50 algae	0.049 mg/l Pseudokirchneriella subcapitata
NOEC (chronic)	0.025 mg/l Daphnia magna (Water flea)
NOEC chronic fish	0.0322 mg/l Pimephales promelas (Fathead minnow)
NOEC chronic algae	0.009 mg/l Pseudokirchneriella subcapitata

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Didecyldimethylammonium chloride (7173-51-5)	
LC50 - Fish [1]	≈ 0.97 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [1]	≈ 0.057 mg/l Daphnia magna (Water flea)
LC50 - Fish [2]	≈ 0.49 mg/l Brachydanio rerio (zebra-fish)
EC50 - Crustacea [2]	≈ 0.029 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	≈ 0.062 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	≈ 0.047 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	≈ 0.014 mg/l Daphnia magna (Water flea)
NOEC chronic algae	0.011 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

CaviWipes™ 2.0	
Persistence and degradability	Rapidly degradable
Isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable.
Chemical oxygen demand (COD)	2.23 g O ₂ /g substance
2-Butoxyethanol (111-76-2)	
Persistence and degradability	Readily biodegradable.
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)	
Persistence and degradability	Rapidly degradable
Didecyldimethylammonium chloride (7173-51-5)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Isopropanol (67-63-0)	
BCF - Fish [1]	3
Partition coefficient n-octanol/water (Log Kow)	0.05

12.4. Mobility in soil

Isopropanol (67-63-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.5

12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

SECTION 13 Disposal considerations

- Regional waste regulation : 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.
- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Product/Packaging disposal recommendations : Container Disposal: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. If recycling is not available, discard in trash.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group			
Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

Not regulated

TDG

Not regulated

IMDG

Not regulated

IATA

Not regulated

SECTION 15 Regulatory information

15.1. Federal regulations

CaviWipes™ 2.0	
SARA Section 311/312 Hazard Classes	Refer to Section 2 for OSHA Hazard Classification.

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

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

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	CAS-No. 111-76-2	1-5%
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15.2. International regulations

CANADA

Isopropanol (67-63-0)

Listed on the Canadian DSL (Domestic Substances List)

2-Butoxyethanol (111-76-2)

Listed on the Canadian DSL (Domestic Substances List)

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on the Canadian DSL (Domestic Substances List)

Didecyldimethylammonium chloride (7173-51-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides (68424-85-1)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Didecyldimethylammonium chloride (7173-51-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

Component	State or local regulations
Isopropanol(67-63-0)	U.S. - New Jersey - Right to Know Hazardous Substance List
2-Butoxyethanol(111-76-2)	U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16 Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Revision date : 9/16/2025

CaviWipes™ 2.0

Safety Data Sheet

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Full text of hazard classes and H-statements	
H227	Combustible liquid

Indication of changes:
New format.

Safety Data Sheet (SDS), USA

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