

METREX

Material Safety Data Sheet

in accordance with Community Regulation 2006/1907/EC (R.E.A.C.H.)

Revision Date: 27th June 2008

SECTION 1

Product & Company identification

1.1 Product name

CaviWipes

1.2 Uses/Application:

Disinfecting towels for medical equipment and surfaces.

1.3 Company (Name, address and info phone number)

METREX RESEARCH CORPORATION

28210 Wick Road

Romulus, Michigan 48174 – U.S.A.

+1-714-516-7788

1.4 Emergency phone (according to communitarian directive 99/45/EC, article 17)

+39.081.8508.325 (08.00-17.00, European time, GMT+1)

E-mail address: safety@kerrhawe.com

SECTION 2

Hazard identification

2.1 Hazard classification (according to communitarian directives 67/548/EEC & 99/45/EC)

Irritating to eyes.

2.2 Other hazard

The product contains Isopropyl alcohol. It may be harmful if swallowed and, in presence of ignition sources and excessive heat, may be flammable.

SECTION 3

Composition/Information on Ingredients

(according to communitarian directives 67/548/EEC, 99/45/EC & 2001/58/EC)

3.1 Hazardous ingredients

HAZARDOUS INGREDIENTS	%	HAZARD SYMBOLS	RISK PHRASES	CAS N.	EINECS N.
Isopropyl alcohol	15-18	F; Xi	11-36-67	67-63-0	200-661-7
Sodium Hydroxide	0,1	C	35	1310-73-2	215-185-5
2- butoxyethanol	1-5	Xn; Xi	20/21/22-36/38	111-76-2	206-905-0

3.2 Other non-hazardous ingredients

The product contains traces of Methyl Salicylate (See also Sections 11 and 16), water and other inert ingredients.

SECTION 4**First aid measures**

- 4.1 Treatment for eye contact: Flush with water for 15 minutes. If irritation persists, seek medical attention.
- 4.2 Treatment for skin contact: Wash skin with soap and water.
- 4.3 Treatment for inhalation (breathing): Remove to fresh air. If irritation persists, seek medical attention.
- 4.4 Treatment for ingestion (swallowing): Do not induce vomiting. Give large amounts of water. Seek medical attention.

SECTION 5**Fire-fighting Measures**

- 5.1 Suitable extinguishing media: Carbon dioxide, dry chemical, foam.
- 5.2 Forbidden extinguishing media: Not determined.
- 5.3 Special fire fighting measures: None.
- 5.4 Unusual fire and explosion hazards: None.
- 5.5 Special protection equipment: Sealed overall.

SECTION 6**Accidental Release Measures**

- 6.1 Personal Precautions: Follow recommended precautions listed in other sections.
- 6.2 Environmental Precautions: Material should not be allowed to drain into sewers.
- 6.3 Reclaiming Methods: Flush thoroughly with water into sewage disposal system in accordance with local regulations. Do not reuse empty container. Wrap container and put in trash.

SECTION 7**Handling and Storage** (according to article 5 of communitarian directive 98/24/EC)

- 7.1 Handling Precautions: Avoid exposure to excessive heat.
- 7.2 Precautions in case of Fire and Explosion: Extinguish all ignition sources.
- 7.3 Storage Conditions: Store at ambient temperature.
- 7.4 Suggested container(s): Original sealed containers provided by manufacturer.
- 7.5 Indication for Combined Storage: Avoid contact with acids and bases.
- 7.6 Environmental precautions: Do not allow product to reach sewers and rivers.
- 7.7 Other Precautions: Keep out of reach of children. Do not ingest. Avoid eye contact and contamination of food. Use according to directions.

SECTION 8	
Exposure controls/personal protection	
8.1 Exposure Limits:	PEL/TLV: 400 ppm (Isopropyl alcohol)
8.2 Exposure control measures	
8.2.1 Precautionary Measures: <i>(according to communitarian directives 89/686/EEC & article 4 of 98/24/EC)</i>	
Ventilation:	<u>Local Exhaust Ventilation:</u> Adequate ventilation to maintain recommended exposure limits. <u>Special Ventilation:</u> None. <u>Mechanical (General) Ventilation:</u> Should be sufficient. <u>Other Ventilation:</u> Not applicable.
Respiratory Protection:	Not needed. Use the product in a well-ventilated area.
Hands Protection:	Not required if used as directed.
Eyes Protection:	Not required if used as directed.
Skin Protection:	Handle in accordance with good personal hygiene and safety practices.
Other Protective Equipments:	It would be better use a lab coat.
<i>Measures listed in this paragraph are to be consider as indications and NOT as prescriptions (89/656/EEC)</i>	
8.2.2 Environment exposure control measures Not Applicable.	

SECTION 9	
Physical and Chemical Properties	
9.1 General information	
<u>Appearance:</u> Towels wetted with a clear to amber liquid	<u>Odour:</u> Mint odor
9.2 Information related to health, safety and environment	
<p><u>pH:</u> 8,5 – 12,49</p> <p><u>Boiling point:</u> 191°F (88°C)</p> <p><u>Flash point (for liquid component only, towels will not ignite):</u> 83°F (28,3°C)</p> <p><u>Flammability:</u> Not flammable if stored as directed.</p> <p><u>Lower Explosivity Limit (L.E.L.):</u> N/A</p> <p><u>Upper Explosivity Limit (U.E.L.):</u> N/A</p> <p><u>Oxidizing properties:</u> None</p> <p><u>Vapour pressure:</u> Similar to water</p>	<p><u>Relative density:</u> Not available</p> <p><u>Specific gravity:</u> 0,972 g/ml</p> <p><u>Solubility:</u> 100% in water</p> <p><u>Partition coefficient n-octanol/water:</u> N/D</p> <p><u>Viscosity:</u> Similar to water</p> <p><u>Vapour density (air = 1):</u> Similar to water</p> <p><u>Evaporation rate (n-butane = 1):</u> Not available</p> <p><u>Melting point:</u> N/A</p>
9.3 Other information <i>(according to communitarian directive 94/9/EC):</i>	
<u>Miscibility:</u> Miscible with water.	<u>Conducibility:</u> Similar to water
<u>Solubility in Lipids:</u> Not available	<u>Gases Group:</u> N/A

SECTION 10

Stability and Reactivity

Stability: Stable solution

10.1 Conditions to avoid: Avoid temperature above 120°F (49°C) and evaporation of water

10.2 Materials to avoid (incompatibility): Avoid contact with acids and bases because they will neutralize active ingredient.

10.3 Hazardous decomposition products: Oxides of Carbon.

Other precautions:

Hazardous Polymerization Products: Will not occur

Safety significance in case of change in physical appearance: None known

Stabilizers: No stabilizers are present in this product

SECTION 11

Toxicological Information

CMR effects (Carcinogenicity, Mutagenicity and toxicity for reproduction):

The product contains Methyl Salicylate, which has shown evidence of teratogenicity in animals. See also Section 16.

Effects and hazards of eye contact: May cause reversible damage.

Effects and hazards of skin contact: Not considered an irritant.

Effects and hazards of Inhalation (Breathing): May cause low or mild irritation.

Effects and hazards of Ingestion (Swallowing): Not applicable.

Effects for prolonged Exposure: Unknown.

Toxic-kinetic effects: Unknown.

Effects on metabolism: Unknown.

Toxicological data for ingredients:

Isopropyl alcohol	LD ₅₀ (oral rat):	4570 mg/Kg
	LD ₅₀ (skin rabbit):	13400 mg/Kg
	LC ₅₀ (inhalation rat/4 hours):	30 mg/l
2- butoxyethanol	LD ₅₀ (oral rat):	530 mg/Kg
	LD ₅₀ (skin rabbit):	400 mg/Kg
	LC ₅₀ (inhalation rat/4 hours):	2,2 mg/l

SECTION 12**Ecological Information**

This product has not known ecological hazardous effects.

12.1 Eco-toxicity: Not available

12.2 Mobility: Not available

12.3 Persistence and degradability: Not available

12.4 Bioaccumulative potential: Not available

12.5 Results of PBT (Persistent Bio-Toxicity) assessment: Not available

12.6 Other adverse effects: Not available

Aquatic toxicity data for single ingredient:

Isopropyl alcohol	LC ₅₀ (fishes, 48 hours):	8970 mg/l
2- butoxyethanol	LC ₅₀ (fishes, 48 hours):	1575 mg/l

SECTION 13**Disposal considerations**

Dispose of in accordance of local regulations.

SECTION 14**Transport information**14.1 Sea transportation (IMDG)

UN number: 1987 Class: 3 Packing group: III EMS-No: F-E, S-D

Stowage/segregation: Category A; Limited Quantity: 5lt

Proper shipping name: Alcohol flammable, n.o.s. (Isopropanol in aqueous solution)

14.2 Air transportation (ICAO/IATA)

UN number: 1987 Class: 3 Packing group: III Label: 3 (Flammable liquid)

Proper shipping name: Alcohol flammable, n.o.s. (Isopropanol in aqueous solution)

14.3 Transportation by Road/Railway (RID/ADR)

UN number: 1987 Class: 3 Packing group: III Label: 3 (Flammable liquid)

Proper shipping name: Alcohol flammable, n.o.s. (Isopropanol in aqueous solution)

Limited Quantity: LQ7 (5lt/30Kg for combined, 5lt/20Kg for bandaged trays).

SECTION 15 (Classification according to communitarian directives 67/548/EEC & 99/45/EC)**Regulatory information**

Hazard labelling not required.

This product is an exempted medical device (directive 1999/45/EC, article 1, paragraph 5g).

SECTION 16**Other information**16.1 Risk phrases of all ingredients

- 11 Highly flammable.
 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 35 Causes severe burns.
 36 Irritating to eyes
 36/37/38 Irritating to eyes, respiratory system and skin.
 67 Vapours may cause drowsiness and dizziness.

16.1.1 Safety phrases of all ingredients

- 2 Keep out of the reach of children
 7 Keep container tightly closed
 25 Avoid contact with eyes
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16.2 Sources of key data used to compile the Safety Data Sheet:

European Chemicals Bureau (ECB – www.ecb.jrc.it)
 European chemical Substances Information System (ESIS - www.ecb.jrc.it/esis)
 A.C.G.I.H. (www.acgih.org)
 N.I.O.S.H. (www.cdc.gov/niosh/)
 O.S.H.A. (www.osha.gov/)
 U.E. (www.europa.eu/index_it.htm)
 I.A.R.C. (www.iarc.fr/)
 N.T.P. (www.ntp.niehs.nih.gov)

Evidence of methyl Salicylate teratogenicity in animals:

- Dangerous Properties of Industrial Materials, Ed. Sax & Lewis, 7th Ed.
- Dushyant Gulati et al., Environmental Health Perspectives Supplements Volume 105, Number S1, February 1997.
- George P. Daston et al., Functional Teratogens of the Rat Kidney, Toxicological Sciences, Volume 11, Number 1 - Pp. 381-400, 1988.

European Community Directives:

67/548/EEC:	Classification, packaging and labelling of dangerous substances.
99/45/EC:	Directive concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
2001/58/EC:	Second amendment of directive 91/155/EEC for the definition of a detailed arrangement of specific information relating to dangerous preparations (art. 14 of 99/45/EC) and substances (art. 27 of 67/548/EEC).
89/656/EEC:	Directive on the minimum health and safety requirements for the use by workers of personal protective equipment at the workplace (third individual directive within the meaning of Article 16 (1) of Directive 89/391/EEC).

89/686/EEC:	Approximation of the laws of the Member States relating to personal protective equipment.
94/9/EC:	Approximation of the laws of the Member States concerning equipment and protective systems intended for use in potentially explosive atmospheres
98/24/EC:	Protection of the health and safety of workers from the risks related to chemical agents at work.

Document modification history:

15th September 2007 First version: Written in compliance to Community Regulation 2006/1907/EC (R.E.A.CH.)

27th June 2008 First revision: Transport section modification in accordance with 2007 ADR version.

CAUTION: PRODUCT FOR PROFESSIONAL USE

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