

# SAFETY DATA SHEET



## Cavex Alginate Adhesive

### 1. Identification of the substance/preparation and of the company/undertaking

**Product name** : **Cavex Alginate Adhesive**  
**Emergency telephone number** : Call local Poison Control Center for assistance.  
**Material uses** : Adhesive.  
**Manufacturer** : Cavex Holland  
 Harmenjansweg 19  
 PO Box 852  
 2003 RW Haarlem  
 The Netherlands

T +31 23 530 7700      E-Mail : dental@cavex.nl  
 F +31 23 535 6482      Website : www.cavex.nl

### 2. Composition/information on ingredients

**Substance/preparation** : Preparation

Chemical name*	CAS No.	%	EC number	Classification
Isopropylalcohol	67-63-0	45 - 50	200-661-7	F; R11 Xi; R36 R67
Toluene	108-88-3	10 - 12	203-625-9	F; R11 Xn; R20
See section 16 for the full text of the R Phrases declared above				

\* Occupational Exposure Limit(s), if available, are listed in section 8

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : R10  
 Xi; R36  
 R67

#### Effects and symptoms

**Inhalation** : Hazardous in case of inhalation.  
**Skin Contact** : May cause allergic reactions, eczema and/or dehydration of the skin.  
**Eye Contact** : Hazardous in case of eye contact (irritant).

### 4. First aid measures

#### First-Aid measures

**Inhalation** : Get medical attention if symptoms occur.  
**Ingestion** : If large quantities of this material are swallowed, call a physician immediately.  
**Skin Contact** : After contact with skin, wash immediately with plenty of Alcohol. Cover the irritated skin with an emollient.  
**Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

### 5. Fire-fighting measures

#### Extinguishing Media

**Suitable** : Use extinguishing media suitable for surrounding materials.  
**Special fire-fighting procedures** : Wear appropriate respiratory protection.  
**Protection of fire-fighters** : Be sure to use an approved/certified respirator or equivalent.

## 6. Accidental release measures

- Personal precautions** : PVC gloves. Safety glasses. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
- Environmental precautions and clean-up methods** : Absorb with liquid-binding material (sand, diatomite, universal binders, or spill kit).

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Keep away from heat. Provide adequate ventilation. Avoid contact with eyes, skin and clothing.
- Storage** : Store and use away from heat, sparks, open flame, or any other ignition source.
- Packaging materials**
- Suitable** : Use original container.

## 8. Exposure controls/personal protection

- Engineering measures** : Manipulate in a well-ventilated area or under an adequate fume hood.
- Hygiene measures** : Not applicable.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
Isopropylalcohol	<b>Nationale MAC-lijst (Netherlands, 2003).</b> TGG: 650 mg/m <sup>3</sup> 8 hour(s).
Toluene	<b>Nationale MAC-lijst (Netherlands).</b> TGG: 150 mg/m <sup>3</sup> 8 hour(s).

### Personal protective equipment

- Skin and body** : Lab coat.
- Hands** : Gloves.
- Eyes** : Safety glasses.

## 9. Physical and chemical properties

- Physical state** : Liquid. (Viscous liquid.)
- Color** : Blue.
- Odor** : Characteristic.
- pH** : Not applicable.
- Boiling point** : The lowest known value is 88°C (190.4°F) (Isopropanol). Weighted average: 92.32°C (198.2°F)
- Flash point** : Closed cup: Between 23°C (73°F) and 37.8°C (100°F).
- Fire hazards in presence of various substances** : Highly flammable in presence of open flames, sparks and static discharge. Flammable in presence of heat.
- Auto-ignition temperature** : The lowest known value is 480°C (896°F) (Toluene).
- Explosive properties** : None.
- Lower explosion limit** : The greatest known range is Lower: 2% Upper: 12% (Isopropanol)
- Oxidizing properties** : None.
- Vapor pressure** : The highest known value is 4.3 kPa (32 mm Hg) (at 20°C) (Isopropanol). Weighted average: 4.02 kPa (30.15 mm Hg) (at 20°C)
- Density** : 0.86 g/cm<sup>3</sup>
- Solubility** : Partially soluble in cold water.
- Vapor density** : The highest known value is 2.1 (Air = 1) (Isopropanol). Weighted average: 1.9 (Air = 1)

## 10. Stability and reactivity

- Stability** : The product is stable.

## 11. Toxicological information

### Acute toxicity

<u>Ingredient name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Isopropylalcohol	LD50	5045 mg/kg	Oral	Rat
	LD50	12800 mg/kg	Dermal	Rabbit
	LC50	46.5 mg/l (4 hour(s))	Inhalation	Rat
Toluene	LD50	636 mg/kg	Oral	Rat
	LD50	12124 mg/kg	Dermal	Rabbit
	LC50	49 mg/l (4 hour(s))	Inhalation	Rat

## Cavex Alginate Adhesive

### Local effects

Eye irritation : Hazardous in case of eye contact (irritant).

## 12. Ecological information

### Ecotoxicity data

<u>Ingredient name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Isopropylalcohol	P.promelas (LC50)	96 hour(s)	9650 mg/l
	Daphnia (EC50)	48 hour(s)	13299 mg/l
	Algae (IC50)	72 hour(s)	1000 mg/l

### Ecological information

<u>Ingredient name</u>	<u>Persistence/degradability</u>						<u>Bioaccumulative potential</u>		
	<u>BOD<sub>5</sub></u>	<u>COD</u>	<u>ThOD</u>	<u>Aquatic half-life</u>	<u>Photolysis</u>	<u>Biodegradability</u>	<u>LogP<sub>ow</sub></u>	<u>BCF</u>	<u>Potential</u>
Isopropylalcohol				< 28 day(s)		Readily	0.1		low
Toluene	0.86 g O 2/g		3.13 g O <sub>2</sub> /g			Inherent	2.7		low

## 13. Disposal considerations

**Methods of disposal ; Waste of residues ; Contaminated packaging** : Type: Hazardous chemical waste.  
Location: Netherlands  
Classification: not available  
Disposal.: via incineration  
Storage: not available  
Recycling: not available





**Waste classification** : Not available.

**European waste catalogue (EWC)** : Not available.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste

## 14. Transport information

### International transport regulations

<u>Regulatory Information</u>	<u>UN number</u>	<u>Proper shipping name</u>	<u>Class</u>	<u>Packing group</u>	<u>Label</u>	<u>Additional information</u>
<b>ADR/RID Class</b>	1866	Resin solution (flammable) (Isopropanol, Toluene)	3	III		Not available.
<b>ADN Class</b>	1866	Resin solution (flammable) (Isopropanol, Toluene)	3	III		Not available.
<b>IMDG Class</b>	1866	Resin solution (flammable) (Isopropanol, Toluene)	3	III		<b>Emergency schedules (EmS) 3-05</b>
<b>IATA-DGR Class</b>	1866	Resin solution (flammable) (Isopropanol, Toluene)	3	III		Not available.

## 15. Regulatory information

### EU Regulations

**Hazard symbol(s)** :



Irritant

**Risk Phrases** : R10- Flammable.  
R36- Irritating to eyes.  
R67- Vapors may cause drowsiness and dizziness.

**Safety Phrases** : S51- Use only in well-ventilated areas.

**Product use** : Classification and labeling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and the intended use.  
- Industrial applications.

**Date of issue** : 4-10-2004.

Page: 3/4

**Cavex Alginate Adhesive**

EC Statistical classification : 32089091  
(Tariff Code)

National regulations

**16. Other information**

**Full text of R phrases referred to in sections 2 and 3 - Netherlands** : R11- Highly flammable.  
R10- Flammable.  
R20- Harmful by inhalation.  
R36- Irritating to eyes.  
R67- Vapors may cause drowsiness and dizziness.

**Full text of classifications referred to in sections 2 and 3 - Netherlands** : F - Highly flammable  
Xn - Harmful  
Xi - Irritant

History

**Date of printing** : 5-10-2004.  
**Date of issue** : 4-10-2004.  
**Date of previous issue** : No Previous Validation.  
**Version** : 1

Notice to reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.  
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*