

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

**2226**

Print date: 12.09.2012

Product code: 2226\_GHS

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### Product identifier

2226

Product group: Endprodukt

### Relevant identified uses of the substance or mixture and uses advised against

### Details of the supplier of the safety data sheet

Company name:	indigodental GmbH	
Street:	Fahltskamp 5	
Place:	D-25421 Pinneberg	
Telephone:	+49 (0) 41 01 86 86 8-0	Telefax: +49 (0) 41 01 86 86 7-0
e-mail:	info@indigodental.com	
Internet:	www.indigodental.com	

## SECTION 2: Hazards identification

### Classification of the substance or mixture

Indications of danger : Irritant  
 R-phrases:  
 Flammable.  
 Irritating to eyes and skin.  
 May cause sensitization by skin contact.

### **GHS classification**

Hazard categories:  
 Flammable liquid: Flam. Liq. 3  
 Hazard Statements:  
 Flammable liquid and vapour.  
 Causes serious eye irritation.  
 Causes skin irritation.  
 May cause an allergic skin reaction.

### Label elements

Signal word: Warning  
 Pictograms: GHS02-GHS07



### **Hazard statements**

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

### **Precautionary statements**

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P233	Keep container tightly closed.

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## SECTION 3: Composition/information on ingredients

### Mixtures

#### Chemical characterization

chemical characterization (preparation): Acrylate.-resin.

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
200-578-6	ethanol, ethyl alcohol	10 - 50 %
64-17-5	F R11	
603-002-00-5	Flam. Liq. 2; H225	
212-782-2	2-hydroxyethyl methacrylate	20 - 30 %
868-77-9	Xi R36/38-43	
607-124-00-X	Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1; H319 H315 H317	

Full text of R- and H-phrases: see section 16.

## SECTION 4: First aid measures

### Description of first aid measures

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### After contact with skin

After contact with skin, wash immediately with: Water and soap.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### After ingestion

Consult physician.

## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

Water fog. Extinguishing powder. Sand. Foam. Carbon dioxide (CO2).

#### Extinguishing media which must not be used for safety reasons

High power water jet.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing. Provide adequate ventilation. Remove all sources of ignition. Keep away from heat.

### Environmental precautions

Do not empty into drains or the aquatic environment.

### Methods and material for containment and cleaning up

Collect mechanically.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

## SECTION 7: Handling and storage

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## Precautions for safe handling

### Advice on safe handling

Keep container tightly closed. Wear suitable protective clothing and gloves. Avoid contact with eyes.

### Advice on protection against fire and explosion

Keep away from heat. Keep away from sources of ignition - No smoking.

## Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.  
Store only in original container.

## SECTION 8: Exposure controls/personal protection

### Control parameters

#### Exposure limits (EH40)

CAS No	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

### Exposure controls



### Occupational exposure controls

Ventilate affected area.

### Protective and hygiene measures

When using do not eat or drink.

### Respiratory protection

The following must be prevented: inhalation.

### Hand protection

Tested protective gloves are to be worn: Suitable material: NBR (Nitrile rubber).

### Eye protection

Tightly sealed safety glasses.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

Physical state: liquid  
Colour: yellow  
Odour: like: ester

#### Test method

pH-Value (at 23 °C): 4,5

### Changes in the physical state

Boiling point: 78 °C  
point of decomposition: 200 °C  
Flash point: 24 °C DIN EN ISO 2719  
Density: 1,1 g/cm<sup>3</sup>

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Water solubility:

60 % g/L

## SECTION 10: Stability and reactivity

### Conditions to avoid

heat. Light.

Decomposition takes place from temperatures above: 200°C

### Incompatible materials

radical former. Keep away from strong acids, leachates, heavy metal salts and reducing materials.

### Hazardous decomposition products

Can be released in case of fire: Gas / vapours, irritant. (Acrylate., pungent)

### Further information

Substances sensitive to light.

## SECTION 11: Toxicological information

### Information on toxicological effects

#### **Acute toxicity**

Warning - substance not yet tested completely.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64-17-5	ethanol, ethyl alcohol				
	oral	LD50	6200 mg/kg	Ratte	
868-77-9	2-hydroxyethyl methacrylate				
	oral	LD50	5050 mg/kg	Ratte	

#### **Specific effects in experiment on an animal**

LD50: Rat. 2.000mg/kg

#### **Irritation and corrosivity**

Irritant effect on the eye:

Frequently or prolonged contact with skin may cause dermal irritation.

#### **Sensitising effects**

May cause sensitization by skin contact.

#### **Additional information on tests**

Contains Methacrylic esters.: May produce an allergic reaction.

## SECTION 12: Ecological information

### Toxicity

Product is partially biodegradable. >50 %

Acute fish toxicity LC50: >230 mg / l / 96 h

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
64-17-5	ethanol, ethyl alcohol					
	Acute crustacea toxicity	EC50 mg/l	9268 - 14221	48	Daphnia magna	
868-77-9	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l	96	Pimephales promelas	

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## Bioaccumulative potential

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,31
868-77-9	2-hydroxyethyl methacrylate	0,47

## Further information

Do not empty into drains or the aquatic environment. Leakage into the environment must be prevented.

## SECTION 13: Disposal considerations

### Waste treatment methods

#### Advice on disposal

Carry out a burning of hazardous waste according to official regulations.

#### Waste disposal number of waste from residues/unused products

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing dangerous substances  
Classified as hazardous waste.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**UN number:** 1170  
**UN proper shipping name:** ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  
**Transport hazard class(es):** 3  
**Packing group:** III  
 Hazard label: 3



Classification code: F1  
 Special Provisions: 144 601  
 Limited quantity: 5 L  
 Transport category: 3  
 Hazard No: 30  
 Tunnel restriction code: D/E

#### Other applicable information (land transport)

E1

### Marine transport

**UN number:** 1170  
**UN proper shipping name:** ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)  
**Transport hazard class(es):** 3  
**Packing group:** III  
 Hazard label: 3

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Special Provisions: 144, 223  
 Limited quantity: 5 L  
 EmS: F-E, S-D

**Other applicable information (marine transport)**

E1

**Air transport**

**UN/ID number:** 1170  
**UN proper shipping name:** ETHANOL, LÖSUNG (ETHYLALKOHOL, LÖSUNG)  
**Transport hazard class(es):** 3  
**Packing group:** III  
 Hazard label: 3



Special Provisions: A58 A180  
 Limited quantity Passenger: 10 L  
 IATA-packing instructions - Passenger: 355  
 IATA-max. quantity - Passenger: 60 L  
 IATA-packing instructions - Cargo: 366  
 IATA-max. quantity - Cargo: 220 L

**Other applicable information (air transport)**

E1  
 : Y344

**Environmental hazards**

Dangerous for the environment: no

**SECTION 15: Regulatory information****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

**SECTION 16: Other information****Full text of R-phrases referred to under sections 2 and 3**

10 Flammable.  
 11 Highly flammable.  
 36/38 Irritating to eyes and skin.  
 43 May cause sensitization by skin contact.

**Full text of H-Statements referred to under sections 2 and 3**

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*