

**Trade name:** Isocera

**Product no.:** 52705

**Current version :** 2.0.0, issued: 14.05.2012

**Replaced version:** 1.0.1, issued: 08.05.2012

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**Isocera**

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

**Relevant identified uses of the substance or mixture**

Manufacturing of dental prosthesis in a dental laboratory

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

**Address**

BEGO Bremer Goldschlägerei

Wilh. Herbst GmbH & Co. KG

Wilhelm-Herbst-Str. 1

28359 Bremen

Telephone no. +49/ 421/ 2028 – 0

Fax no. +49/ 421/ 2028 – 115

**Information provided by / telephone**

Research & Development Department - Materials, alloys and ceramics; +49/ 421/ 2028 – 130 (Chief Development Officer alloys)

**Advice on Safety Data Sheet**

msds@bego.com

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49/ 551/ 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

R10

R43

R67

Xi; R41

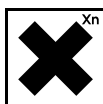
Xn; R22

R52/53

### 2.2 Label elements

**Labelling according to Directive 1999/45/EC**

**Hazard symbols**



Harmful

**Hazardous component(s) to be indicated on label, contains:**

Alcohols, C9-11, ethoxylated

Oils, anise

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**R phrases**

10	Flammable.
22	Harmful if swallowed.
41	Risk of serious damage to eyes.
43	May cause sensitisation by skin contact.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

**S phrases**

7/9	Keep container tightly closed and in a well-ventilated place.
24/25	Avoid contact with skin and eyes.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
37/39	Wear suitable gloves and eye/face protection.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.

**2.3 Other hazards**

PBT assessment  
No data available.

vPvB assessment  
No data available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Mixture (preparation)

**Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification 67/548/EEC	Concentration	%-b.w.
1	<b>Alcohols, C9-11, ethoxylated</b>			
	68439-46-3 - - -	Xn; R22 Xi; R41	> 50,00 - < 70,00	%-b.w.
2	<b>n-propanol, propan-1-ol</b>			
	71-23-8 200-746-9 603-003-00-0 -	F; R11 Xi; R41 R67	> 30,00 - < 50,00	%-b.w.
3	<b>Oils, anise</b>			
	8007-70-3 - - -	R43 N; R51/53	> 5,00 - < 10,00	%-b.w.

Full Text for all R-phrases: pls. see section 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

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**After inhalation**

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

**After skin contact**

Wash off immediately with soap and water. Don't use solvents.

**After eye contact**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

**After ingestion**

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

No data available.

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide; extinguishing powder; Water spray jet; Alcohol-resistant foam

**Unsuitable extinguishing media**

Full water jet

**5.2 Special hazards arising from the substance or mixture**

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Formaldehyde

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Suppress gases/vapours/mists with water spray jet. Cool endangered containers with water spray jet. Wear protective clothing.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition. Refer to protective measures listed in sections 7 and 8.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

Ensure adequate ventilation. Pick up rest with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under heading "Disposal considerations".

**6.4 Reference to other sections**

No data available.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

**Advice on safe handling**

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

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**General protective and hygiene measures**

Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Provide eye wash fountain in work area. Have emergency shower available.

**Advice on protection against fire and explosion**

Take precautionary measures against static charges. When heating the product, explosive vapour-air mixtures can be formed. Keep away from sources of heat and ignition.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Keep only in the original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Advice on storage assembly**

Do not store together with: oxidizing substances; explosive substances; spontaneously combusting substances; flammable toxic substances; Peroxides; ammonium nitrate; Oxidizing agents

**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	n-propanol, propan-1-ol	71-23-8	200-746-9
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Propan-1-ol			
	STEL	625	mg/m <sup>3</sup> 250 ml/m <sup>3</sup>
	TWA	500	mg/m <sup>3</sup> 200 ml/m <sup>3</sup>
	Skin resorption / sensibilisation	Sk	

**8.2 Exposure controls****Appropriate engineering controls**

No data available.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye / face protection**

Safety glasses with side protection shield (EN 166)

**Hand protection**

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material butyl rubber

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form/Colour</b>			
liquid			
colourless			
<b>Odour</b>			
of anise			
<b>Odour threshold</b>			
No data available			
<b>pH value</b>			
Value	7,9		
Concentration	100	%	
<b>Boiling point / boiling range</b>			
Value	100	°C	
Reference pressure	101,3	kPa	
<b>Melting point / melting range</b>			
No data available			
<b>Decomposition point / decomposition range</b>			
No data available			
<b>Flash point</b>			
Value	26	°C	
<b>Auto-ignition temperature</b>			
No data available			
<b>Oxidising properties</b>			
No data available			
<b>Explosive properties</b>			
No data available			
<b>Flammability (solid, gas)</b>			
No data available			
<b>Lower flammability or explosive limits</b>			
No data available			
<b>Upper flammability or explosive limits</b>			
No data available			
<b>Vapour pressure</b>			
Value	<	1,33	hPa
Reference temperature		20	°C
<b>Vapour density</b>			
No data available			
<b>Evaporation rate</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value	0,899	g/cm <sup>3</sup>	
<b>Solubility in water</b>			
Remarks	Completely miscible		

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Solubility(ies)	
No data available	

Miscible with	
soluble in most organic solvents	

Partition coefficient: n-octanol/water	
No data available	

Viscosity			
Value		2,4	mPa*s
Reference temperature		20	°C
Type	dynamic		
Value		2,7	mm <sup>2</sup> /s
Reference temperature		20	°C
Type	kinematic		

## 9.2 Other information

Other information	
No data available.	

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from sun.

### 10.5 Incompatible materials

Earth alkali metals; Alkali metals; Alcohols; strong oxidizing agents; Peroxides

### 10.6 Hazardous decomposition products

In case of fire the following can be released: Formaldehyde

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity			
LD50		1870	mg/kg
Species	rat		
Reference substance	1-propanol		
LD50		6800	mg/kg
Species	mouse		
Reference substance	1-propanol		
LD50		2825	mg/kg
Species	rabbit		
Reference substance	1-propanol		
LD50		5700	mg/kg
Species	Human		
Reference substance	1-propanol		
Acute dermal toxicity			
LD50		4000	mg/kg
Species	rabbit		
Reference substance	1-propanol		

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Acute inhalational toxicity	
LC50	9,8 mg/l
Duration of exposure	4 h
Species	rat
Reference substance	1-propanol

Skin corrosion/irritation	
Species	rabbit
Reference substance	1-propanol
Evaluation	irritant

Serious eye damage/irritation	
Duration of exposure	24 h
Species	rabbit
Reference substance	1-propanol
Evaluation	irritant

Respiratory or skin sensitisation	
No data available	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT-single exposure	
No data available	

STOT-repeated exposure	
No data available	

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Inhalation of vapours may lead to headache, drowsiness and dizziness. Possibility of sensitisation through skin contact. Danger of acute eye damage. Harmful if swallowed. Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.	

## SECTION 12: Ecological information

### 12.1 Toxicity

Fish toxicity	
No data available	

Daphnia toxicity	
EC50	3642 mg/l
Duration of exposure	48 h
Species	Daphnia magna
Reference substance	1-propanol

Algae toxicity	
IC50	1150 mg/l
Duration of exposure	48 h
Species	Selenastrum capricornutum
Reference substance	1-propanol

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<b>Bacteria toxicity</b>
No data available

## 12.2 Persistence and degradability

<b>Biodegradability</b>	
Reference substance	1-propanol
Evaluation	readily biodegradable

## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	
PBT assessment	No data available.
vPvB assessment	No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

<b>Other information</b>
Do not discharge into the drains or waters and do not store on public depositories.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	III
Hazard identification no.	30
UN number	UN1274
Technical name	n-PROPANOL (PROPYL ALCOHOL, NORMAL)
Danger releasing substance	n-propanol, propan-1-ol
Tunnel restriction code	D/E
Label	3

### 14.2 Transport IMDG

Class	3
Packing group	III
UN number	UN1274
Proper shipping name	PROPANOL (PROPYL ALCOHOL, NORMAL)
Danger releasing substance	n-propanol, propan-1-ol
EmS	F-E+S-D
Label	3



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**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	III
UN number	UN1274
Proper shipping name	n-Propanol (Propyl alcohol, normal)
Danger releasing substance	n-propanol, propan-1-ol
Label	3

**14.4 Other information**

No data available.

**14.6 Special precautions for user**

No data available.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Restriction of occupation**

Adhere to the national sanitary and occupational safety regulations when using this product.

**Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks Annex I, part 2, category 6

**15.2 Chemical safety assessment**

No data available.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

**Full text of the R-, H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

R11 Highly flammable.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Department issuing safety data sheet**

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

**Alterations/supplements:**

Alterations to the previous edition are marked in the left-hand margin.