

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### BEST-CA 212

Print date: 25.04.2013

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

##### Product identifier

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

###### Use of the substance/mixture

Adhesives, sealants

###### Uses advised against

none/none

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

Company name:	Best Klebstoffe GmbH & Co. KG	
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#### SECTION 2: Hazards identification

##### Classification of the substance or mixture

Indications of danger : Irritant  
R-phrases:  
Irritating to eyes, respiratory system and skin.

##### GHS classification

Hazard categories:  
Skin corrosion/irritation: Skin Irrit. 2  
Serious eye damage/eye irritation: Eye Irrit. 2  
Specific target organ toxicity - single exposure: STOT SE 3  
Hazard Statements:  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.

##### Label elements

Signal word: Warning  
Pictograms: GHS07



##### Hazard statements

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

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**Precautionary statements**

- P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P501 Dispose of contents/container to disposal according to official regulations .

**Special labelling of certain mixtures**

- EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

**SECTION 3: Composition/information on ingredients****Mixtures****Hazardous components**

EC No.	Chemical name	Quantity
CAS No.	Classification	
Index No.	GHS classification	
REACH No.		
230-391-5	ethyl 2-cyanoacrylate	80 - < 100 %
7085-85-0	Xi R36/37/38	
607-236-00-9	Eye Irrit. 2, STOT SE 3, Skin Irrit. 2; H319 H335 H315	

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

**Further Information**

Note: This hazard characteristics refer to the properties of pure ingredients, for the identification of the preparation (product), see Section 2 and 16.

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

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

**After inhalation**

Provide fresh air. If symptoms persist, seek medical advice.

**After contact with skin**

Take off immediately all contaminated clothing. After contact with skin, wash immediately with: Water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Do not induce vomiting. Rinse mouth thoroughly with water. Let water be swallowed in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. Call a POISON CENTER or doctor/physician.

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

Treat symptomatically.

**SECTION 5: Firefighting measures**

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#### Extinguishing media

##### **Suitable extinguishing media**

Foam. Carbon dioxide. Extinguishing powder.

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

High power water jet.

#### Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocyanic acid (hydrocyanic acid).

#### Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical resistant suit.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Extinguishing materials should be selected according to the surrounding area. Use water spray/stream to protect personnel and to cool endangered containers.

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.  
Provide adequate ventilation.

#### Environmental precautions

Do not empty into drains or the aquatic environment.

#### Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the assimilated material according to the section on waste disposal.

### SECTION 7: Handling and storage

#### Precautions for safe handling

##### **Advice on safe handling**

Wear suitable protective clothing. ( Refer to chapter 8. )

##### **Advice on protection against fire and explosion**

In case of fire and/or explosion do not breathe fumes. Usual measures for fire prevention.

##### **Further information on handling**

Avoid contact with skin, eye and clothing.

#### Conditions for safe storage, including any incompatibilities

##### **Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place. Keep container dry.

##### **Advice on storage compatibility**

Do not store together with: Radioactive substances. Infectious substances. Organic peroxides. Oxidizing solids Oxidizing liquids Pyrophoric liquids and solids. Inflammatory substances. Substances or mixtures which, in contact with water emit flammable gases. Non-combustible toxic substances.

##### **Further information on storage conditions**

Protect against: Light. UV-radiation/sunlight. heat. cooling moisture.

### SECTION 8: Exposure controls/personal protection

#### Control parameters

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#### Exposure limits (EH40)

CAS No.	Chemical name	ml/m <sup>3</sup>	mg/m <sup>3</sup>	F/ml	Category	Origin
7085-85-0	Ethyl cyanoacrylate	-	-		TWA (8 h)	WEL
		0.3	1.5		STEL (15 min)	WEL

#### Additional advice on limit values

To date, no national limit values exist.

#### Exposure controls

##### Occupational exposure controls

No special measures are necessary. Avoid contact with skin, eye and clothing.

##### Protective and hygiene measures

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work. Remove contaminated clothing immediately and dispose off safely. Wash contaminated clothing prior to re-use. Used working clothes should not be used outside the work area. Street clothing should be stored separately from work clothing.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

##### Hand protection

Pull-over gloves of rubber. DIN EN 374

Suitable material:

 (penetration time (maximum wearing period):  $\geq$  8 hours.):

CR (polychloroprenes, Chloroprene rubber). (0,5 mm)

NBR (Nitrile rubber). (0,35 mm)

FKM (fluororubber). (0,4 mm)

PVC (Polyvinyl chloride). (0,5 mm)

Butyl rubber. (0,5 mm)

Before using check leak tightness / impermeability. In case of reutilization, clean gloves before taking off and store in well-aired place.

##### Eye protection

Suitable eye protection: Tightly sealed safety glasses. DIN EN 166

##### Skin protection

Suitable protection of the body: Lab apron.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless
Odour:	characteristic

#### Test method

pH-Value: n/a

#### Changes in the physical state

Melting point: not determined

Boiling point: not determined

Flash point: 87 °C DIN 51758

Lower explosion limits: not determined

Upper explosion limits: not determined

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Ignition temperature:	not determined
Vapour pressure: (at 25 °C)	1,5 hPa DIN 51616
Density (at 25 °C):	1,1 g/cm <sup>3</sup> DIN 51757
Water solubility:	practically insoluble
Viscosity / dynamic: (at 23 °C)	20 mPa·s

### SECTION 10: Stability and reactivity

#### Chemical stability

Stable under normal storage and handling conditions.

#### Possibility of hazardous reactions

Reacts with : Oxidizing agents, strong. Strong acid. Water.

#### Conditions to avoid

Protect against: Light. UV-radiation/sunlight. heat. cooling moisture.

#### Incompatible materials

Materials to avoid: Oxidizing agents, strong. Strong acid. Water.

#### Hazardous decomposition products

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrocyanic acid (hydrocyanic acid).

### SECTION 11: Toxicological information

#### Information on toxicological effects

##### **Toxicokinetics, metabolism and distribution**

No data available

##### **Acute toxicity**

CAS No.	Chemical name				
	Exposure routes	Method	Dose	Species	h
7085-85-0	ethyl 2-cyanoacrylate				
	Acute oral toxicity	LD50	>5000 mg/kg	Rat.	
	Acute dermal toxicity	LD50	>2000 mg/kg	Rabbit.	

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

No data available

##### **Irritation and corrosivity**

Irritant effect on the eye: irritant.

Irritant effect on the skin: irritant.

##### **Sensitizing effects**

No data available

##### **Severe effects after repeated or prolonged exposure**

No data available

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

ethyl 2-cyanoacrylate:

No evidence for: Carcinogenicity

No experimental indications of mutagenicity in-vitro exist.

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#### SECTION 12: Ecological information

##### Toxicity

No data available

##### Persistence and degradability

No data available

##### Bioaccumulative potential

No indication of bio-accumulation potential.

##### Partition coefficient n-octanol/water

CAS No.	Chemical name	Log Pow
7085-85-0	ethyl 2-cyanoacrylate	0,78

##### Mobility in soil

No information available.

#### SECTION 13: Disposal considerations

##### Waste treatment methods

###### **Advice on disposal**

Consult the local waste disposal expert about waste disposal.

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

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
Classified as hazardous waste.

###### **Waste disposal number of used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other dangerous substances  
Classified as hazardous waste.

###### **Contaminated packaging**

Cleaned containers may be recycled.

#### SECTION 14: Transport information

##### **Land transport (ADR/RID)**

**UN number:** Not restricted

##### **Other applicable information (land transport)**

Not restricted

##### **Inland waterways transport**

**UN number:** Not restricted

##### **Other applicable information (inland waterways transport)**

Not restricted

##### **Marine transport**

**UN number:** Not restricted

##### **Other applicable information (marine transport)**

Not restricted

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#### Air transport

**UN/ID number:** Not restricted

**UN proper shipping name:** Not restricted

### SECTION 15: Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

1999/13/EC (VOC): 0%

##### Additional information

1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006; 1272/2008; 75/324/EWG (2008/47/EG)

##### National regulatory information

Employment restrictions: Observe employment restrictions for young people.

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

### SECTION 16: Other information

#### Changes

Rev 1,00 Initial release 05.11.11

#### Full text of R-phrases referred to under sections 2 and 3

36/37/38 Irritating to eyes, respiratory system and skin.

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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