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Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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1. Identification of the substance/mixture and of the company/undertaking

Name of the product	MAGNUMBOND
Manufacturer/distributor	K+S INDUSTRIEBEDARF GmbH Steige 4 D-69436 Schönbrunn Tel: +49 (0) 62 62/38 99 Fax: +49 (0) 62 62/38 74
Emergency advice	Phone: + 49 (0) 62 62/38 99 (K+S INDUSTRIEBEDARF GmbH) +49 (0) 89/1 92 40 (Giftnotruf München)
Recommended intended purpose(s):	1-Component Cyanacrylat-Adhesive

2. Hazards identification

Classification according to 67/548/EEC or 1999/45/EC

Xi; R36/37/38

R-phrases

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

Labelling according to 67/548/EEC or 1999/45/EC

Remarks for labelling

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Xi Irritant

R-phrases

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

S-phrases

2 Keep out of reach of children
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
46 If swallowed, seek medical advice immediately and show the container or label

Special rules for supplemental label elements for certain mixtures

Cyanoacrylate! Danger! Bonds skin and eyelids within seconds. Keep out of reach of children.

Information pertaining to special dangers for human and environment

Cyanoacrylat. Bonds skin and eye lids within seconds.

Geschäftsführer:

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Amtsgericht Mannheim HRB 334804

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BIC: PBNKDEFF

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3. Composition/information on ingredients

Description

One-component adhesive based on cyanoacrylate acid alkyl ester

Hazardous ingredients

CAS No.	EC No.	Name	[% weight]	classification according to 67/548/EEC
7085-85-0	230-391-5	ethyl-2-cyanacrylate	80 – 100	Xi36/37/38

4. First aid measures

General information

Remove contaminated soaked clothing immediately

In case of inhalation

Ensure of fresh air

In case of skin contact

In case of contact with skin wash off immediately with soap and water

In case of eye contact

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

In case of ingestion

Call for a doctor immediately

Physician's information / possible symptoms

Shortness of breath

Treatment (Advice to doctor)

In the event of pulmonary irritation treat initially with dexamethasone metered-dose-aerosol.

5. Fire-fighting measures

Suitable extinguishing media:

Alcohol-resistant foam, Dry powder, Carbon dioxide, Water spray jet

Special hazards arising from the substances or mixture

Fire gas or organic material has to be classed invariably as respiratory poison.

In the event of fire the following can be released:

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO₂)

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Fire-fighting operation, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

Additional information

Fire residues and contaminated firefighting water must be disposed of accordance with the local regulations.

6. Accidental release measures

Personal precautions

Ensure adequate ventilation
User personal protective clothing

Environmental precautions

Do not discharge into the drains or bodies of water.

Methods for cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, genera-purpose binder, sawdust)

7. Handling and storage

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.
Open and handle container with care.

Advice on protection against fire and explosion

Keep away from sources of ignition – no smoking

Requirements for storage rooms and vessels

Keep in closed original container

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

8. Exposure controls/personal protection

Ingredients with occupational exposure limits to be monitored

CAS No.	Name	Code	[mg/m ³]	[ppm]	Remark
7085-85-0	Ethyl-cyanoacrylate	8 hours/Short term	1,5	0,3	EH40/2005

Respiratory protection:

If ventilation insufficient, wear respiratory protection
Short term: filter apparatus, Filter B

Hand protection:

In the case of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.
Chemical protective gloves must be chosen carefully in view of their design and depending on the concentration and amounts of dangerous goods used in the specific working tasks.
Glove material specification (make/type, thickness, permeation time/life, wetting resistance: butyl rubber, 0,7mm, 480min)

Eye protection:

Tightly fitting goggles

Skin protection

Protective clothing

General protective measures

Do not inhale vapours
Avoid contact with eyes and skin

Hygiene measures

At work do not eat, drink and smoke
Wash hands before breaks and after work
Use barrier skin cream

9. Physical and chemical properties

Form: liquid **Colour:** colourless **Odour:** odourless

Important health, safety and environmental information

	Value	Temperature at	Method	Remark
Boiling point	> 200°C			
Flash point	87°C		DIN/ISO 2592	
Lower explosion limit	not applicated			
Upper explosion limit	not applicated			
Vapour pressure	< 0,5 mbar	20°C	DIN 51616	
Density	1,05 – 1,09 g/cm ³	20°C		
Solubility in water				more or less Insoluble
Viscosity dynamic	5 – 1500 mPa's	20°C		

10. Stability and reactivity

Conditions to avoid

In case of addition of water warming up

Materials to avoid

Reacts heavily with water
Reactions with oxidizing agents
Reactions with alkalies
Reactions with amines

Hazardous decomposition products

Carbon monoxide and carbon dioxide
Nitrous oxide (NOx)

Thermal decomposition

Remark No decomposition if used as directed

Additional information

Polymerization under development of heat.

11. Toxicological information

Accute toxicity/Irritability/Sensitization

Irritability skin: irritant

Irritability eye: irritant

Experiences made from practice

Sensitization through inhalation possible
Possible sensitization in case of persons suffering from hypersensitivity.
Irritates mucous membranes.

Additional information

Labelling in compliance with assessment procedure specified in the EC guidelines 1999/45/EC

12. Ecological information

General regulation

Do not allow uncontrolled leakage of product into the environment.

13. Disposal considerations

Recommendations for the product

Remove in accordance with local official regulations.

Can be disposed of together with household refuse in accordance with the regulations and on consultations with the disposal agency and the relevant authorities.

Product rests: send for disposal, e.g. special waste incineration.

Recommendations for packaging

Carefully polymerize content with water or alkali.

14. Transport information

Transport/further information

No dangerous goods as defined by the transport regulations – ADR/RID, IMDG, ICAO/IATA-DGR.

15. Regulatory information

VOC standard

VOC content 1,5 – 2%

16. Other information

Recommendend uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Wording of the R/H-phrases specified in chapter 3 (not the classification of mixture!)

R36/37/38 Irritating to eyes, respiratory system and skin