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

1.1 Product identifier

Trade name BONDAN SE09

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

General use Adhesive and sealant.

1.3 Details of the supplier of the safety data sheet

Drei Bond GmbH · Carl-Zeiss-Ring 13 · 85737 Ismaning

t +49 (0)89 96 24 27-0 · f +49 (0)89 96 24 27-19

Department responsible for information: info@bondan.de • t +49 89 962427-0

1.4 Emergency telephone number

Drei Bond GmbH Tel. +49 (0)89 96 24 27-0

Carl-Zeiss-Ring 13 During office hours

85737 Ismaning Mo – Do 9:00 am – 05:00 pm

Fr 8:00 am – 3:00 pm

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Physical hazards Not Classified

Health hazards Skin Irrit. 2 - H315

Eye Irrit. 2 - H319 STOT SE 3 - H335

Environmental hazards Not Classified

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2.2 Label elements

Labelling CLP:



Signal wor	rd	Warning	3
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Hazard statements

H315 Causes skin irritation.

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

<u>Precautionary statements</u>

P101 If medical advice is needed, have product container or

label at hand.

P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye

protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of 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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special labelling

EUH202 Cyanoacrylate. Danger. Bonds skin and eyes in seconds.

Keep out of the reach of children.

Contains: ETHYL-2-CYANOACRYLATE

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Supplementary precautionary statements

P304+P340 IF INHALED: Remove person to fresh air and keep	
comfortable for breathing.	
P312 Call a POISON CENTER/doctor if you feel unwell.	
P321 Specific treatment (see instructions on this label).	
P332+P313 If skin irritation occurs: Get medical advice/attention.	
P337+P313 If eye irritation persists get medical advice/attention.	
P362+P364 Take off contaminated clothing and wash it before reuse	٩.
P403+P233 Store in a well ventilated place. Keep container tightly	

closed.

2.3 Other hazards

No particular dangers to mention.

Results of the PBT and vPvB assessment:

This product is not identified as a PBT/vPvB substance.

3 Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

Ingredient	Designation	Content	Classification
CAS number: 7085-85-0	ETHYL-2-CYANOACRYLATE	70 - 90 %	Skin Irrit. 2 - H315
EC number: 230-391-5			Eye Irrit. 2 - H319
REACH registration number:			STOT SE 3 - H335
01-2119527766-29-XXXX			
CAS number: 123-31-9	HYDROQUINONE	< 0.1 %	Carc. 2 - H351
EC number: 204-617-8			Muta. 2 - H341
			Acute Tox. 4 - H302
			Eye Dam. 1 - H318
			Skin Sens. 1 - H317
			Aquatic Acute 1 - H400

The full text for all hazard statements is displayed in Section 16.

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4 First aid measures

4.1 Description of first aid measures

Inhalation Move the exposed person to fresh air. Get medical

attention if any discomfort continues.

Ingestion On contact, immediate bonding of mouth could occur. Do

not induce vomiting. Get medical attention.

Skin contact On contact, immediate bonding of the skin will occur. No

attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can

be easily torn. Wash skin thoroughly with soap and

water.

Eye contact Rinse immediately with plenty of water. Continue to rinse

for at least 10 minutes. If adhesive bonding occurs, do not force eyelids apart. Apply a pad soaked in warm water and allow the eyelids to separate. Get medical attention. Cured adhesive will not bond well to surface of

eye, but corneal damage from abrasion may result.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation Irritation of nose, throat and airway. Irritation of the

throat can be associated with a feeling of tightness in the

chest.

Ingestion On contact, immediate bonding of mouth could occur.

There may be soreness and redness of the mouth and

throat. Nausea and stomach pain may occur.

Skin contact may cause redness and irritation.

Eye contact There may be pain and redness. The eyes may water

profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

exposure.

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4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor SKIN BONDING. Prise the skin apart slowly working from

the edge of the bonded area. This can be eased by using

warm soapy water.

EYE BONDING. DO NOT force eyelids apart. Apply a pad

soaked in warm water and allow the eye to separate

itself.

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide (CO₂), dry extinguishing powder, alcohol

resistant foam, atomized water. Suitable extinguishing media for the surrounding fire should be used. Use water

spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Specific hazards Cloths used to wipe up spills may cause rapid

polymerization that could generate sufficient heat to

ignite the cloth.

Hazardous combustion

products

Decomposes upon heating to release toxic fumes of

nitrogen oxides, carbon monoxide, carbon dioxide, and

hydrogen cyanide.

5.3 Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours.

Special protective equipment for

firefighters

Use air-supplied respirator, gloves and protective

goggles.

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6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. Provide adequate

ventilation.

6.2 Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the

ground.

6.3 Methods and material for containment and cleaning up

Clean-up procedures Small spills: wipe up with cloth. Immediately soak cloth

with water to polymerize the adhesive. Caution! Cloth containing adhesive may undergo autoignition if not soaked with water Large spills: flood area with water.

When cured, remove film with a scraper.

Should curing not be possible, absorb into dry earth or sand. Transfer to a closable, labelled salvage container

for disposal by an appropriate method.

6.4 Reference to other sections

Collect and dispose of spillage as indicated in Section 13.

7 Handling and storage

7.1 Precautions for safe handling

Usage precautions Ensure adequate ventilation of the working area. Avoid

contact with skin and eyes. Always replace cap after use.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool

place. Keep containers upright.

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7.3 Specific end use(s)

Specific end use(s)

Adhesive

8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

ETHYL 2-CYANOACRYLATE (CAS: 7085-85-0)

Short-term exposure limit: WEL 0.3 ppm, 1.5 mg/m³

WEL = Workplace Exposure Limit

DNEL

Workers - Inhalation; Long term systemic effects: 9.25 mg/m³ Workers - Inhalation; Long term local effects: 9.25 mg/m³

PNEC

Technically not feasible.

HYDROQUINONE (CAS: 123-31-9)

Time weighted average limit (8 h): WEL 0.5 mg/m³ WEL = Workplace Exposure Limit

8.2 Exposure controls

Protection equipment





Appropriate engineering controls

Normal (mechanical) room ventilation should be adequate for small volumes. For higher volume activities, or if needed for worker comfort, local mechanical exhaust should be provided.

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protection should conform to EN 166.

Hand protection It is recommended that chemical-resistant, impervious

gloves are worn. Gloves should conform to EN 374. For exposure up to 4 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 0.5 hours. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber. Thickness: ≥ 0.4 mm The selected gloves should have a breakthrough time of at least 8 hours. The breakthrough time for any glove material may be different for different glove manufacturers. The most suitable glove should be

chosen in consultation with the glove

supplier/manufacturer, who can provide information about the breakthrough time of the glove material.

Considering the data specified by the glove

manufacturer, check during use that the gloves are retaining their protective properties and change them as

soon as any deterioration is detected.

Other skin and body protection Uniforms, coveralls, or a lab coat should be worn.

Hygiene measures Wash at the end of each work shift and before eating,

smoking and using the toilet. When using do not eat, drink or smoke. Wash promptly if skin becomes

contaminated. Use of good industrial hygiene practices is

required.

Respiratory protection Ensure adequate ventilation of the working area.

Respiratory protection may be required if excessive airborne contamination occurs. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Organic vapour filter, Type A (EN14387).

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance liquid

Colour colourless/cloudy gel
Odour irritating odour
pH not applicable
Melting point/range not determined

Boiling point and range 150 °C Flash point 87 °C

Evaporation rate not determined Upper/lower flammability or not determined

explosive limits

Vapour pressure not determined
Vapour density not determined
Density 1.05 g/cm³
Water solubility insoluble

Solubility(ies) Insoluble in water. Hardens in contact with water.

Miscible with the following materials: Organic solvents

Partition coefficient not determined

Auto-ignition temperature 500 °C

Decomposition temperature not determined

Viscosity @ 25 °C 90.000 – 130.000 cPa·s; thixotropic

Explosive properties not determined Oxidizing properties not determined

VOC content 20 g/l

9.2 Other information

10 Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

The product reacts with water and will generate heat.

10.2 Chemical stability

Stable at normal ambient temperatures and when used as recommended.

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10.3 Possibility of hazardous reactions

Reactions with the following materials may generate heat: Water, alcohols, alkalis, amines

10.4 Conditions to avoid

Do not add water directly to the product. It may cause a violent reaction.

10.5 Incompatible materials

water, amines, alkalis, alcohols, strong oxidising agents, strong acids

10.6 Hazardous decomposition products

Heating may generate the following products: Toxic gases/vapours/fumes of: Carbon dioxide (CO_2) , carbon monoxide (CO), nitrous gases (NOx), hydrogen cyanide (HCN).

11 Toxicological information

11.1 Information on toxicological effects

Toxicological effects The mixture is classified based on the available haza

information for the ingredients as defined in the

classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the

following.

Other health effects Under EU legislation the cyanoacrylates do not require

classification as sensitisers and the rapid polymerisation caused on contact with moisture makes this unlikely. However the American Conference of Governmental Industrial Hygienists (ACGIH) has reported some limited evidence of skin and respiratory sensitisation. May cause

allergic reactions in susceptible people.

Inhalation Irritating to respiratory system. Irritation of the throat

can be associated with a feeling of tightness in the chest.

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Ingestion On contact, immediate bonding of mouth could occur.

There may be soreness and redness of the mouth and

throat. Nausea and stomach pain may occur.

Skin contact Irritating to skin. On contact, immediate bonding of the

skin will occur.

Eye contact Irritating to eyes. There may be pain and redness. The

eyes may water profusely. There may be severe pain. The

vision may become blurred. May cause permanent

damage.

exposure.

Toxicologic information on the product

Skin corrosion/irritation

Calculated hazardous

Serious eye damage/irritation

Calculated hazardous

STOT- single exposure

Calculated hazardous

Skin sensitisation

Classified as non-hazardous because of lack of data.

Germ cell mutagenicity

Classified as non-hazardous because of lack of data.

Reproductive toxicity

Classified as non-hazardous because of lack of data.

STOT- repeated exposure

Classified as non-hazardous because of lack of data.

Aspiration hazard

Classified as non-hazardous because of lack of data.

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Toxicological effects on ingredients

ETHYL 2-CYANOACRYLATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg) 5,000.0 Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.1 Species Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) not available

Skin corrosion/irritation

Animal data Dose: 0.5g, 24 hours, Rabbit: Slightly irritating

Serious eye damage/irritation

Serious eye damage/irritation Method: OECD 405, Rabbit: Irritating to eyes

Skin sensitisation

Skin sensitization Guinea pig: Not sensitising

Germ cell mutagenicity

Genotoxicity - in vitro Gene mutation: Negative

Chromosome aberration: Negative

Bacterial reverse mutation test: Negative

<u>Carcinogenicity</u>

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility technically not feasible

Reproductive toxicity -

development

technically not feasible

Specific target organ toxicity - single exposure

STOT - single exposure no information available

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Specific target organ toxicity - repeated exposure

STOT - repeated exposure no information available

Aspiration hazard

Aspiration hazard no information available

HYDROQUINONE

Acute toxicity - oral

Acute toxicity oral (LD₅o mg/kg) 720 Species Rat

12 Ecological information

Ecotoxicity no data available

12.1 Toxicity

Toxicity The mixture is classified based on the available hazard

information for the ingredients as defined in the

classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the

following.

Acute aquatic toxicity

Acute toxicity - aquatic

Invertebrates

no data available

Acute toxicity - aquatic plants no data available

Acute toxicity - terrestrial no data available

12.2. Persistence and degradability

Persistence and degradability biodegradable

Biological oxygen demand not known

Chemical oxygen demand not known

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12.3 Bioaccumulative potential

Bioaccumulative potential no bioaccumulation potential

Ecological information on ingredients

ETHYL 2-CYANOACRYLATE

Partition coefficient log Kow: 0.776

12.4 Mobility in soil

Mobility Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

PBT identification This product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects

Other adverse effects Negligible ecotoxicity.

13 Disposal considerations

13.1 Waste treatment methods

General information Waste disposal should be in accordance with existing

Community, National and local regulations Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.

Disposal methods Do not empty into drains, dispose of this material and its

container at hazardous or special waste collection point.

Waste class 08 04 09* waste adhesives and sealants containing

organic solvents or other dangerous substances.

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14 Transport information

Road transport notes not classified

Rail transport notes not classified

Sea transport notes not classified

Air transport notes Applies only to inner containers > 500ml.

14.1 UN number

UN No. (ADR/RID) not applicable

UN No. (IMDG) not applicable

UN No. (ICAO) 3334

UN No. (ADN) not applicable

14.2 UN proper shipping name

Proper shipping name (ADR/RID) not applicable

Proper shipping name (IMDG) not applicable

Proper shipping name (ICAO) AVIATION REGULATED LIQUID, N.O.S. (contains ethyl

cyanoacrylate)

Proper shipping name (ADN) not applicable

14.3 Transport hazard class(es)

ICAO class/division 9

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Transport labels



14.4 Packing group

ICAO packing group

14.5 Environmental hazards

Environmentally hazardous substance/marine pollutant: no

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14.6 Special precautions for user

None under normal conditions.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

15 Regulatory information

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

EU legislation Regulation (EC)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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Guidance

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG228.

Approved Classification and Labelling Guide (Sixth edition) L131.

Safety Data Sheets for Substances and Preparations.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16 Other information

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Supersedes date: 06.10.2020

Wording of the hazard statements under paragraph 2 and 3:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

Department issuing data sheet:

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

The information in this data sheet has been established to our best knowledge and was up-todate at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

(The data on the hazardous ingredients were taken from the most recent safety data sheet from the supplier.)

