

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

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

1.1. Product identifier

Product name: contec Contact Superglue

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

Recommended intended purpose(s): 1-component cyanoacrylate - adhesives

1.3. Details of the supplier of the safety data sheet

Distributor: DYWIDAG-Systems International GmbH
Südstraße 3
D-32457 Porta Westfalica
Phone: + 49 (0) 5731 / 76 78 0
Fax: + 49 (0) 5731 / 76 78 79

Advice: Technical department + 49 (0) 5731 / 76 78 0

1.4. Emergency telephone number

Emergency advice -

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Hazard class und Hazard categories | Hazard statement | Classification procedure |
|------------------------------------|---------------------------------------|--------------------------|
| Skin Irrit. 2 | H315 Causes skin irritation | |
| Eye Irrit. 2 | H319 Causes serious eye irritation | |
| STOT SE 3 | H335 May cause respiratory irritation | |

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP/GHS]:



GHS07

Signal word: Warning

Hazard statements

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

Precautionary statements

P102 Keep out of the reach of children
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray
P264 Wash hands thoroughly after handling
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 soap and water
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
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 CENTRE or doctor/physician if you feel unwell

| | |
|-----------|--|
| P322+P313 | If skin irritation occurs: Get medical advice/attention |
| P337+P313 | If eye irritation persists: Get medical advice/attention |
| P362 | Take off contaminated clothing |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up |
| P501 | Dispose of contents/container to hazardous or special waste collection point |

Special rules for supplemental label elements for certain mixtures

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

2.3. Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

Description

One-component adhesive based on cyanoacrylate acid alkyl ester

3.2. Mixtures

Hazardous ingredients

| CAS No. | EC No. | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|-----------|-----------|-----------------------|------------|--|
| 7085-85-0 | 230-391-5 | ethyl 2-cyanoacrylate | 80-99.9 | Eye Irrit. 2, H319 / STOT SE 3, H335 / Skin Irrit. 2, H315 |

not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

General information: Remove contaminated soaked clothing immediately. Take affected persons into fresh air.

In case of inhalation: Remove the casualty into fresh air and keep him immobile. In the event of symptoms refer for medical treatment.

In case of skin contact: In case of contact with skin wash off immediately with soap and water. Do not take off solidified product from skin. Refer for medical treatment.

In case of eye contact: After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion: Call for medical help immediately.

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

Physician's information/possible symptoms

Coughing
 Shortness of breath
 Respiratory complaints
 Skin irritation

4.3. Indication of any immediate medical attention and special treatment needed: No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, dry powder

Unsuitable extinguishing media: Full water jet

5.1. Special hazards arising from the substance or mixture: In case of fire formation of dangerous gases possible.

Nitrogen oxides (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for fire fighters

Special protective equipment for fire-fighters

Fire-fighting operations, 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 in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Ensure adequate ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not discharge into drains or bodies of water.

6.3. Methods and materials for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binders, universal binders, sawdust).

Disposal according to regulations.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Ensure thorough room ventilation, if necessary use in well ventilated area with local exhaust ventilation at the workplace. Open and handle container with care!

General protective measures: Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.

Hygiene measures: Do not eat, drink or smoke at work. Wash soiled clothing immediately. Wash hands before breaks and after work.

Advice on protection against fire and explosion: Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Store only in the original container and keep closed.

Advice on storage compatibility: Do not store together with animal feedstuffs. Do not store together with food. Keep away from water.

Further information on storage conditions: Keep container tightly closed and store in a cool and aired place. Protect from heat and direct solar radiation.

7.3. Specific end use(s)

Recommendation(s) for intended use: See section 1.2

SECTION 8: Exposure control and personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

| CAS No. | Name | Code | [mg/m3] | [ppm] | Remark |
|-----------|---------------------|-----------------------|---------|-------|-----------|
| 7085-85-0 | Ethyl cyanoacrylate | 8 hours Short-term | 1.5 | 0.3 | EH40/2005 |

Additional information: Statutory local and national regulations have to be observed.

8.2. Exposure controls

Respiratory protection: In case of insufficient ventilation or long-term exposure use breathing apparatus.

Hand protection: In cases of special applications, it is recommended to check the chemical resistance with the glove manufacturer.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0.4 mm; 480 min; 60 min

Eye protection: Tightly fitting goggles.

Other protection measures: Protective work clothing.

Appropriate engineering controls: Sufficient ventilation and exhaustion.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General information

Appearance:

| | |
|-----------------|--------------------|
| Form | : liquid |
| Colour | : colourless |
| Odour | : typical, pungent |
| Odour threshold | : not determined |

Important health, safety and environmental information

| | | |
|---|---------------------------|--------------|
| pH value | : not determined | |
| Boiling point | : 214 °C | at 1003 mbar |
| Melting point | : -31 °C | |
| Flash point | : 82.5 °C | |
| Vapourisation rate | : not determined | |
| Flammability (solid) | : not determined | |
| Flammability (gas) | : not determined | |
| Ignition temperature | : not determined | |
| Self-ignition temperature | : 480 °C | |
| Lower explosion limit | : not applicable | |
| Upper explosion limit | : not applicable | |
| Vapour pressure | : < 21 Pa | |
| Relative density (at 20 °C) | : 1.043 g/cm ³ | |
| Vapour density | : not determined | |
| Solubility in water | : reacts with water | |
| Solubility/other | : 91.8 mg/l acetone | |
| Partition coefficient n-octanol/water (log P O/W) | : 0.776 | |
| Decomposition temperature | : not determined | |
| Viscosity (at 20 °C) | : 2.6 mPa*s | |
| Oxidising properties | : no | |
| Explosive properties | : not applicable | |

9.2. Other information : no information available

SECTION 10: Stability and reactivity

10.1. Reactivity: No information available

10.2. Chemical stability: No information available

10.3. Possibility of hazardous reactions: Reacts with oxidising agents. Explosive reaction with water. Reactions with alcohols, amines, aqueous acids and alkalies.

10.4. Conditions to avoid: After contact with water: Keep away from heat. Risk of polymerisation.

10.5. Incompatible materials

Materials to avoid: Alkali (lye), alcohols, amines, strong oxidising agents, water

10.6. Hazardous decomposition products: Toxic gases/vapours, carbon monoxide and carbon dioxide, nitrous oxides (NOx)

Thermal decomposition

Remark: No decomposition if used according to directions.

Additional information: Polymerization under development of heat.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

| | Value/Validation | Species | Method | Remark |
|--------------------|-------------------------|----------------|---------------|---------------|
| LD50 acute oral | > 5000 mg/kg | rat | OECD 401 | |
| LD50 acute dermal | > 2000 mg/kg | rabbit | OECD 402 | |
| Irritability skin | irritant | | | |
| Irritability eye | irritant | | | |
| Skin sensitization | non-sensitizing | | | |

Subacute Toxicity – Carcinogenicity

| | Value | Species | Method | Validation |
|-----------------------|--------------|----------------|---------------|---|
| Chronic Toxicity | | | | - |
| Mutagenicity | | | | No experimental information on genotoxicity in vitro available. |
| Reproduction-Toxicity | | | | No indications of toxic effects were observed in reproduction studies in animals. |
| Carcinogenicity | | | | No indications of carcinogenic effects are available from long-term trials. |

Specific target organ toxicity (single exposure): Not applicable

Specific target organ toxicity (repeated exposure): Not applicable

Aspiration hazard: Not determined

Experiences made from practice: Persons suffering from hypersensitivity showed sensitization. Irritates mucous membranes. Irritates eyes and skin.

Additional information: The product is to be handled with the caution common for chemicals. Other hazardous properties may not be excluded.

SECTION 12: Ecological information

12.1. Toxicity

No information available.

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|---------------------------------|------------------|--------------------|----------------|------------|
| Biological degradability | | | not applicable | |

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water, bioavailability is not likely.

12.4. Mobility in soil

Not applicable

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

General regulation: No adverse ecological effects are known or expected to be a concern under normal use. Do not allow uncontrolled leakage of product into the environment. The ecotoxic effect of the product has not been tested. The information on this was derived from products or similar structure or composition.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Waste code no. | Name of waste |
|----------------|--|
| 08 04 09* | Waste adhesives and sealants containing organic solvents or other dangerous substances |

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product: Remove in accordance with local official regulations.

Recommendations for packaging: Carefully polymerize content with water or alkali. Disposal according to local waste regulations.

General information: Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

SECTION 14: Transport information

| | ADR/RID | IMDG | IATA-DGR |
|----------------------------------|---------|------|----------|
| 14.1. UN-number | - | - | - |
| 14.2. Proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | - | - | - |
| 14.4. Packaging group | - | - | - |
| 14.5. Environmental hazards | - | - | - |

14.6. Special precautions for user: No information available

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

Transport/further information: Not classified as dangerous as defined by transport regulations – ADR/RID, IMDG, ICAO/IATA-DGR

SECTION 15: Regulatory information

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

VOC standard

| | |
|-------------|----------|
| VOC content | 2 % |
| VOC value | 21.2 g/L |

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Recommended uses and restrictions: National and local regulations concerning chemicals shall be observed. For industrial use only.

Further information: Each user is responsible for the implementations of the national special regulations. The information contained herein is based on our present knowledge and information provided by our suppliers. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Please observe the following disclaimer! – Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Relevant phrases:

| | |
|------|----------------------------------|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |