

EGGER Joint & Joist Adhesive

Version number: GHS 1.1

Date of compilation: 2024-08-08

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

1.1 Product identifier

Trade name **EGGER Joint & Joist Adhesive**
Article number 639811

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

Relevant identified uses Adhesive
Uses advised against Restricted to professional use.

1.3 Details of the supplier of the safety data sheet

Fritz Egger GmbH & Co. OG
Tiroler Straße 16
A-3105 Unterradlberg
Austria

Telephone: +43 (0) 50600-12205
e-mail: chem.compliance@egger.com

| Supplier of the product | | | | | | |
|-------------------------|-------------------|----------------|-------------|-----------------------|---------------------|--------------------------|
| Name | Street | Country | Postal code | City | Telephone | e-Mail |
| EGGER (UK) Limited | Anick Grange Road | United Kingdom | NE46 4JS | Hexham Northumberland | +44 (0) 1434 602191 | productsupport@egger.com |

e-mail (competent person) chem.compliance@egger.com

1.4 Emergency telephone number

T +44 1434 613304
This number is only available during the following office hours: Mon-Fri 8:30 a.m. - 5 p.m.
Members of the public seeking specific information on poisons should contact: NHS Emergency 999 – NHS Non Emergency - 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.3 Classification (acc. to GB CLP)

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 3.1I | acute toxicity (inhal.) | 4 | Acute Tox. 4 | H332 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.4R | respiratory sensitisation | 1 | Resp. Sens. 1 | H334 |
| 3.4S | skin sensitisation | 1 | Skin Sens. 1 | H317 |
| 3.6 | carcinogenicity | 2 | Carc. 2 | H351 |
| 3.8R | specific target organ toxicity - single exposure (respiratory tract irritation) | 3 | STOT SE 3 | H335 |
| 3.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects
Delayed or immediate effects can be expected after short or long-term exposure.

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2.2 Label elements

Labelling (acc. to GB CLP)

- Signal word danger

- Pictograms

GHS07, GHS08



- Hazard statements

| | |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

- Precautionary statements

| | |
|----------------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P342+P311 | If experiencing respiratory symptoms: Call a POISON CENTER/doctor. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P501 | Dispose of contents / container to approved waste disposal or recycling in accordance with national regulations. |

- Supplemental hazard information

EUH204 Contains isocyanates. May produce an allergic reaction.

- Hazardous ingredients for labelling

diphenylmethane diisocyanate

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Adhesive.

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|------------------------------|---|-----------|---|------------|
| diphenylmethane diisocyanate | CAS No 9016-87-9 32055-14-4 EC No 500-079-6 | 10 – < 25 | Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 | |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|-------------------|-----------------------------------|-----|----------------------------|------------|
| | REACH Reg. No 01-2119457024-46 | | STOT RE 2 / H373 EUH204 | |

| Name of substance | Specific Conc. Limits | M-Factors | ATE | Exposure route |
|------------------------------|---|-----------|------------|--------------------|
| diphenylmethane diisocyanate | Skin Irrit. 2; H315: C ≥ 5 % Eye Irrit. 2; H319: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 % | - | 11 mg/l/4h | inhalation: vapour |

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Remove victim out of the danger area. Take off immediately all contaminated clothing. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. Call a doctor. If experiencing respiratory symptoms: Call a doctor. In case of unconsciousness bring patient into stable side position for transport.

Following skin contact

After contact with skin, wash immediately with plenty of water and soap. Rinse thoroughly.

Following eye contact

Rinse opened eye for several minutes under running water. If symptoms persist: Call a doctor.

Following ingestion

If symptoms persist: Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Asthmatic complaints.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), Fire extinguishing powder, Alcohol resistant foam, Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Formation of poisonous gases during heating or in fires.

Nitrogen oxides (NO_x), Inflammable gases/vapours, Carbon monoxide (CO), Carbon dioxide (CO₂), Hydrogen cyanide (HCN, prussic acid), Isocyanate, Nitrous vitriol gases

5.3 Advice for firefighters

Wear self-contained breathing apparatus. Do not inhale explosion gases or combustion gases.

Special protective equipment for firefighters

Use suitable breathing apparatus

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Suitable protective equipment

Personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach sewage system or water bodies. Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder, acid binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Ventilate affected area. Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

Handling and storage: see section 7. Personal protective equipment: see section 8. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Store in a dry place. Keep container tightly closed in a cool place. Prevent formation of aerosols. Use only in well-ventilated areas.

- Specific notes/details

Information about protection against explosions and fires: Keep breathing equipment ready.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Keep container tightly closed and in a well-ventilated place. Store in a dry place.

- Incompatible substances or mixtures

Water

Control of effects

Protect against external exposure, such as

humidity

- Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

CAS No 9016-87-9 diphenylmethane diisocyanate

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| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | |
|--|---------------|------------|--------------------------|---------------------------|----------------|-------------|
| Country | Name of agent | Identifier | TWA [mg/m ³] | STEL [mg/m ³] | Notation | Source |
| EU | diisocyanates | IOELV | 0.01 | 0.02 | NCO, H | 2024/869/EU |
| GB | isocyanates | WEL | 0.02 | 0.07 | NCO, ex-C2H3NO | EH40/2005 |

Notation

| | |
|-----------|--|
| ex-C2H3NO | except methyl isocyanate |
| H | absorbed through the skin |
| NCO | measured total-NCO (isocyanate) |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |

| Relevant DNELs of components of the mixture | | | | | | |
|---|-------------------------|----------|------------------------|------------------------------------|-------------------|-------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | DNEL | 0.05 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | DNEL | 0.1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |

| Relevant PNECs of components of the mixture | | | | | | |
|---|-------------------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | PNEC | 1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | PNEC | 0.1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | PNEC | 1 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

This information is not available. Handling and storage: see section 7.

Individual protection measures (personal protective equipment)

Eye/face protection

Safety glasses recommended during refilling and spraying. Safety glasses.

Skin protection

Wear suitable protective clothing.

- Hand protection

Impervious gloves (EN 374)

Material of gloves: Butyl rubber, BR

Penetration time of glove material: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Gloves made of the following material are suitable for the permanent contact with this material in work areas which do not have an above-average risk of injury (e.g. laboratories): Butyl rubber, BR, Fluorocarbon rubber (Viton)

For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR, Fluorocarbon rubber (Viton)

For permanent contact of max. 15 minutes, gloves made of the following materials are suitable: Nitrile rubber, NBR

Not suitable are gloves made of the following materials: Leather gloves, Strong gloves

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- Other protection measures

Keep away from food, drink and animal feedingstuffs. Standard precautionary measures for handling chemicals are to be observed. Wash hands thoroughly after handling. Take off immediately all contaminated clothing. Store protective clothing separately. Do not inhale gases/fumes/aerosols. Avoid contact with skin and eyes. Do not eat or drink while working.

Respiratory protection

Use breathing protection in case of insufficient ventilation (EN 14387).

Filter A/B/P2.

In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|------------------------------------|
| Physical state | liquid (viscous) |
| Colour | according to product specification |
| Odour | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | 330 °C |
| Flammability | not applicable |
| Lower and upper explosion limit | UEL: 10.7 vol% |
| Flash point | 102 °C |
| Auto-ignition temperature | 290 °C |
| Decomposition temperature | not determined |
| pH (value) | 6.75 (20 °C) |
| Kinematic viscosity | not determined |
| Dynamic viscosity | 5,450 mPa s at 20 °C |

Solubility(ies)

| | |
|------------------|-----------------------------------|
| Water solubility | Not miscible or difficult to mix. |
|------------------|-----------------------------------|

Partition coefficient

| | |
|---|----------------|
| Partition coefficient n-octanol/water (log value) | not determined |
|---|----------------|

| | |
|-----------------|-----------------|
| Vapour pressure | 11 hPa at 20 °C |
|-----------------|-----------------|

Density and/or relative density

| | |
|-------------------------|----------------|
| Density | not determined |
| Relative vapour density | not determined |

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| | |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

9.2 Other information

| | |
|--|---|
| Information with regard to physical hazard classes | hazard classes acc. to GHS (physical hazards): not relevant |
|--|---|

Other safety characteristics

| | |
|---------------|------|
| Solid content | 98 % |
|---------------|------|

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts violently with water. Reacts with moist air. Reacts with strong acids and alkali. Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

10.4 Conditions to avoid

Keep away from heat
Protect from moisture.

10.5 Incompatible materials

Water, Acids, Bases, Oxidisers

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS - GB CLP

Acute toxicity

Harmful if inhaled.

| Acute toxicity estimate (ATE) of components | | | |
|---|-------------------------|--------------------|------------------------|
| Name of substance | CAS No | Exposure route | ATE |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | inhalation: vapour | 11 mg _i /4h |

| Acute toxicity of components | | | | | |
|------------------------------|-------------------------|----------------|----------|----------------------------|---------|
| Name of substance | CAS No | Exposure route | Endpoint | Value | Species |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | oral | LD50 | 10,000 mg _g /kg | rat |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | dermal | LD50 | 10,000 mg _g /kg | rabbit |

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Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components | | | | | |
|--|-------------------------|----------|-------------|-----------------------|---------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | LC50 | >1,000 mg/l | fish | 96 h |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | EC50 | >1,000 mg/l | aquatic invertebrates | 24 h |
| diphenylmethane diisocyanate | 9016-87-9 32055-14-4 | LC0 | >1,000 mg/l | fish | 96 h |
| diphenylmethane diisocyanate: EC50: >100 mg/l 3h activated sludge (OECD 209) | | | | | |
| diphenylmethane diisocyanate: EC50: >100 mg/l 3h Pseudomonas putida | | | | | |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

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12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

It is not permitted to dispose of this mixture in residual waste. Do not allow product to reach sewage system or water bodies.

Waste treatment of containers/packagings

Hand over to disposers of hazardous waste. Packagings that cannot be cleaned are to be disposed of in the same manner as the product. Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packaging with cured adhesive residues can be recycled. Packaging with cured adhesive residues can be treated as household waste. Packaging with uncured adhesive residues must be disposed of as hazardous waste.

Remarks

Please consider the relevant national or regional provisions.

SECTION 14: Transport information

- | | |
|---|---|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |
| 14.5 Environmental hazards | non-environmentally hazardous acc. to the dangerous goods regulations |
| 14.6 Special precautions for user | There is no additional information. |
| 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

| 2012/18/EU (Seveso III) | | | |
|-------------------------|---------------------------------------|---|-------|
| No | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the application of lower and upper-tier requirements | Notes |
| | not assigned | | |

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Industrial Emissions Directive (IED)

| | |
|-------------|-------|
| VOC content | 0 % |
| VOC content | 0 g/l |

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

| List of pollutants (WFD) | | | |
|------------------------------|--------|-----------|---------|
| Name of substance | CAS No | Listed in | Remarks |
| diphenylmethane diisocyanate | | a) | |

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

| Dangerous substances with restrictions (GB REACH, Annex 17) | | | |
|---|--|------------|----|
| Name of substance | Name acc. to inventory | CAS No | No |
| EGGER Joint & Joist Adhesive | this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC | | 3 |
| diphenylmethane diisocyanate | Methylenediphenyl diisocyanate (MDI) | 26447-40-5 | 56 |
| diphenylmethane diisocyanate | diisocyanates | | 74 |

15.2 Chemical Safety Assessment

A chemical safety assessment has been carried out .

SECTION 16: Other information

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-------------|--|
| 2024/869/EU | Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work |
| Acute Tox. | Acute toxicity |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation in- |

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| Abbr. | Descriptions of used abbreviations |
|--------------|---|
| | térieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road) |
| ATE | Acute Toxicity Estimate |
| Carc. | Carcinogenicity |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| ED | Endocrine disruptor |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GB CLP | The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended) |
| GB REACH | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| index No | The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| IOELV | Indicative occupational exposure limit value |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LD50 | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Resp. Sens. | Respiratory sensitisation |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitisation |
| STEL | Short-term exposure limit |

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| Abbr. | Descriptions of used abbreviations |
|---------|--|
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| UEL | Upper explosion limit (UEL) |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended). The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended). GB mandatory classification and labelling.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

| Code | Supplemental hazard information |
|--------|--|
| EUH204 | contains isocyanates. May produce an allergic reaction |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

1 Title

Exposure scenario 1

Industrial use

Use Descriptor

Sector(s) of use

SU3

Industrial uses

Substance for industrial manufacture of preparations/mixtures.

Products Category

PC1

Adhesives, sealants

Process categories [PROC]

PROC1

Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

PROC3

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4

Chemical production where opportunity for exposure arises

PROC5

Mixing or blending in batch processes

PROC7

Industrial spraying

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10

Roller application or brushing

PROC13

Treatment of articles by dipping and pouring

PROC15

Use as laboratory reagent

PROC14

Tabletting, compression, extrusion, pelletisation, granulation

PROC21

Low energy manipulation and handling of substances bound in/on materials or articles

PROC9

Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Processes, tasks, activities covered

See section 1 of the annex to the Safety Data Sheet.

Conditions of use

Customary application according to section 1.
Frequency and duration of use: 8hrs (full working shift).

Physical parameters

The data in this exposure scenario concerning the physico-chemical properties are based on the properties of the preparation.

Concentration of the substance in the mixture

The substance is main component.

Used amount per time or activity

33333 tons per day.

2 Operational conditions and risk management measures

2.1 Other operational conditions and risk management measures

Other relevant operational conditions

Other given operational conditions affecting environmental exposure

Observe the standard safety regulations when handling chemicals

The product must not get in contact with soil, surface water and ground water before complete hardening. Observe section 6 of the Safety Data Sheet (Accidental release measures).

High temperatures promote emission.

Other given operational conditions affecting workers exposure

Avoid long-term and repeated skin contact. Avoid contact with skin, eyes and clothes.

Respiratory protection is required for not sufficiently ventilated working places and during the spraying processing.

Ensure adequate ventilation, especially in closed rooms. Avoid breathing particles.

Other given operational conditions affecting consumers exposure

No special measures are required.

Other operational conditions affecting consumer exposure during the use of the product

Not applicable.

Risk management measures

Worker protection

Immediately remove any contaminated clothing, shoes or stockings.

Symptoms of poisoning may even occur after several hours.

Therefore medical observation is required for at least 48 hours after the accident.

Organisational protective measures

Provide internal plant instruction.

Technical protective measures

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Filtering Half-face mask (DIN EN 149).

Use breathing protection in case of insufficient ventilation (EN 14387).

Filter A/B/P2.

In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137).

Heat resistant gloves.

Impervious gloves (EN 374).

2.2 Control of environmental exposure

Environmental protection measures

Air

No special measures required.

Water

Do not allow to reach ground water, water bodies or sewage system, not even in small quantities.

Soil

No special measures required.

Notes

In case of unintended release of the product: See section 6 of the Safety Data Sheet

Disposal measures

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type

Solid product residues

Partially emptied and uncleaned packaging

3 Exposure estimation

Worker - all relevant routes

Worker - oral:

No significant oral exposure

Worker - dermal:

No significant dermal exposure

Worker - inhalation:

The calculated value is smaller than the DNEL

Environment:

The calculated value is smaller than the PNEC.

Consumers:

Not relevant

4 Guidance to check compliance with the exposure scenario

Guidance for downstream users

No further relevant information available

1 Title

Exposure Scenario 2

Professional use

Use Descriptor

Sector(s) of use

SU22

Professional use
Public domain (administration, education, entertainment, services, craftsmen).

Products Category

PC1

Adhesives, sealants

Process categories [PROC]

PROC3

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC4

Chemical production where opportunity for exposure arises

PROC5

Mixing or blending in batch processes

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC10

Roller application or brushing

PROC11

Non industrial spraying

PROC13

Treatment of articles by dipping and pouring

PROC15

Use as laboratory reagent

PROC14

Tabletting, compression, extrusion, pelletisation, granulation

PROC21

Low energy manipulation and handling of substances bound in/on materials or articles

Environmental release categories [ERC]

ERC8c

Widespread use leading to inclusion into/onto article (indoor)

ERC8f

Widespread use leading to inclusion into/onto article (outdoor)

Processes, tasks, activities covered

See section 1 of the annex to the Safety Data Sheet.

Conditions of use

Customary application according to section 1.
Frequency and duration of use: 8hrs (full working shift).

Physical parameters

The data in this exposure scenario concerning the physico-chemical properties are based on the properties of the preparation.

Used amount per time or activity

600 kg per day.

Concentration of the substance in the mixture

The substance is main component.

2 Operational conditions and risk management measures

2.1 Other operational conditions and risk management measures

Other relevant operational conditions

Other given operational conditions affecting environmental exposure

Observe the standard safety regulations when handling chemicals

The product must not get in contact with soil, surface water and ground water before complete hardening. Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other given operational conditions affecting workers exposure

Indoor and outdoor use.
Avoid contact with skin, eyes and clothes.
Avoid long-term and repeated skin contact.
Avoid breathing particles.

Other given operational conditions affecting consumers exposure

Not relevant.

Other operational conditions affecting consumer exposure during the use of the product

Not applicable.

Risk management measures

Worker protection

Immediately remove any contaminated clothing, shoes or stockings.
Symptoms of poisoning may even occur after several hours. Therefore medical observation is required for at least 48 hours after the accident.

Organisational protective measures

Provide internal plant instruction.

Technical protective measures

Ensure that suitable extractors are available on processing machines.

Personal protective measures

Use breathing protection in case of insufficient ventilation (EN 14387).
Filter A/B/P2.
In case of brief exposure or low pollution use breathing filter apparatus (EN 136). In case of intensive or longer exposure use breathing apparatus that is independent of circulating air (EN 137).
Impervious gloves (EN 374).

2.2 Control of environmental exposure

Environmental protection measures

Air

No special measures required.

Water

Do not allow to reach ground water, water bodies or sewage system, not even in small quantities.

Soil

No special measures required.

Disposal measures

Ensure waste is collected and contained.

Disposal procedures

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Waste type

Solid product residues
Partially emptied and uncleaned packaging

3 Exposure estimation

Worker - all relevant routes

Worker - oral:
No significant oral exposure
Worker - inhalation:
The calculated value is smaller than the DNEL
Environment:
The calculated value is smaller than the PNEC.
Consumers:
Not relevant

4 Guidance to check compliance with the exposure scenario

Guidance for downstream users

No further relevant information available