



Plastic Repair Flex Part B

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 19/08/2014 Revision date: 12/10/2022 Supersedes version of: 04/06/2018 Version: 1.3

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

1.1. Product identifier

Product form : Mixture
Product name : Plastic Repair Flex Part B
UFI : 4NA9-EQKY-TD7N-E51G
Product code : 7971
Article number : 79711B

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Function or use category : Filler and sealants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

BARDAHL NL - OCD NEDERLAND BV
Maxwellstraat 41
3316 GP Dordrecht
Nederland
T 0031 78 651 2322 - F 0031 78 617 4848
mijkooijman@bardahl.nl - www.bardahl.nl

1.4. Emergency telephone number

Emergency number : +31 (0) 6 54924171
During office hours: 8.30 t/m 17:00 h

Country	Official advisory body	Address	Emergency number	Comment
	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 2 H319
Respiratory sensitisation, Category 1 H334
Skin sensitisation, Category 1 H317
Carcinogenicity, Category 2 H351
Specific target organ toxicity – Single exposure, Category 3, H335
Respiratory tract irritation
Specific target organ toxicity – Repeated exposure, Category 2 H373
Full text of H- and EUH-statements: see section 16

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Adverse physicochemical, human health and environmental effects

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008. SDS: according to EC directive 2001/58/EC and the REACH regulation 1907/2006 Annex II.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

EUH-statements

Extra phrases

- : Danger
- : Diphenylmethanediisocyanate, isomeres and homologues
- : 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.
- : P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- : P308+P313 - IF exposed or concerned: Get medical advice/attention.
- : P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- : P280 - Wear protective clothing, protective gloves, face protection, eye protection.
- : P201 - Obtain special instructions before use.
- : EUH204 - Contains isocyanates. May produce an allergic reaction.
- : Labelling according to Regulation (EC) No. 1272/2008 [CLP].

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diphenylmethanediisocyanate, isomeres and homologues	EC-No.: 905-744-8	50 – 100	Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Allow affected person to breathe fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove contaminated clothing immediately. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after eye contact	: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops.
First-aid measures after ingestion	: Get immediate medical advice and attention. Do not induce vomiting, unless told so by a poison control center or doctor. Never give anything by mouth to an unconscious person.

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

Symptoms/effects	: For symptom description, see item 11.
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4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Foam. Water spray. Dry chemical.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Do not breathe gas, fumes, vapour or spray.
Explosion hazard	: Explosion risk in case of fire.

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. Safety boots.
Other information	: Ensure all national/local regulations are observed.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Do not allow the product to be released into the environment. Without proper ventilation, vapors may accumulate in the deeper layers of the soil and also from afar light when they are lit, with the risk that the flame returns.
- Precautions for safe handling : No open flames. No smoking. Good ventilation of the workplace required. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep in original containers. Store in dry, cool, well-ventilated area.
- Incompatible materials : heat. sparks. Open flame. Sources of ignition.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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EU - Indicative Occupational Exposure Limit (IOEL)	
	Directive 2009/161 / EU; Directive 2006/15 / EC; Directive 2004/37 / EC; Directive 2000/39 / EC.

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Use eye protection according to EN 166, designed to protect against liquid splashes. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. (Ref. EEC Directive 89/686 and EN ISO 20344). Wash with plenty of water/...

Hand protection:

Selection of the glove material on consideration of the penetration times, permeability and degradation. Wear suitable gloves tested to EN374. neoprene/butyl rubber. PVA gloves. Fluorocarbon rubber (Viton)

8.2.2.3. Respiratory protection

Respiratory protection:

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used. Where excessive vapour may result, wear approved mask. EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Assure that emissions are compliant with all applicable air pollution control regulations.

Other information:

Good ventilation of the workplace required. if necessary: Ventilation, local exhaust, or breathing protection. Assure that emissions are compliant with all applicable air pollution control regulations. face protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: brown.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: > 300 °C
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 205 °C
Auto-ignition temperature	: > 600 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: 819.672 mm²/s
Viscosity, dynamic	: 1000 mPa·s
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0.01 Pa
Vapour pressure at 50°C	: Not available
Density	: 1.22 g/cm³ (25°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

See 10.3.

10.2. Chemical stability

To avoid thermal decomposition, do not overheat.

10.3. Possibility of hazardous reactions

To avoid oxidation agents, strong bases, strong acids, water and reductor agents.

10.4. Conditions to avoid

Overheating.

10.5. Incompatible materials

Oxidizer. Strong acids. Strong bases.

10.6. Hazardous decomposition products

When heated to decomposition, emits dangerous fumes.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.
Additional information	: If swallowed: Abdominal pain, nausea. Vomiting Burning sensation

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ATE CLP (dust,mist)	1.5 mg/l/4h
Skin corrosion/irritation	: May cause moderate irritation.
Serious eye damage/irritation	: Irritating to eyes. Eye contact : Oedema. Pain. Tears.
Respiratory or skin sensitisation	: Acute toxicity : May cause respiratory irritation. May cause irritation to skin. May cause skin dryness or cracking. Coughing. Risk of lungs oedema. Causes sensitisation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Additional information	: The skin may include: erythema edema, nodules, vesicles, papules, scaling, fissures and phenomena in which pus is produced, and vary according to the phase in which the disease is located and where it manifests. In acute phase is mainly defined erythema, edema and pus. In chronic phase, one mainly sees flaking, dry patches, chapped and skin thickening.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Additional information	: However, no sufficient information is available to give a complete assessment.
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.

Diphenylmethanediisocyanate, isomers and homologues

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Data not validated

Diphenylmethanediisocyanate, isomers and homologues

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

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Viscosity, kinematic	819.672 mm²/s
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11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified
(acute)

Hazardous to the aquatic environment, long-term : Not classified
(chronic)

Diphenylmethanediisocyanate, isomers and homologues

LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

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Ecology - soil	Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
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12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	< 0.1%
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12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Prevent entry to sewers and public waters.
Additional information	: Recycle after cleaning. This material and its container must be disposed of as hazardous waste. Dispose of solid materials at an authorized site. Ensure all national/local regulations are observed.

SECTION 14: Transport information

In accordance with / / ADR / IMDG / IATA / ADN / RID

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Other information, restriction and prohibition regulations

: Workers exposed to this chemical agent required to be provided by the results of the hazard assessment shows that there is only a limited risk to the safety and health of workers and that no medical examination required by Directive 98 / 24 / EC prescribed measure.

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Yes

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations and acronyms:

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail
ICAO: International Civil Aviation Organization
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Carc. 2	Carcinogenicity, Category 2
EUH204	Contains isocyanates. May produce an allergic reaction.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.

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Full text of H- and EUH-statements:

H373	May cause damage to organs through prolonged or repeated exposure.
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.