Plastic Repair Hard Part B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Date of issue:8/25/2014 Revision date: : Version: 1.2

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

1.1. Product identifier

Product form : Mixture

Article number : 79701B

Product code : 7970

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
rjjonker@bardahl.nl - www.bardahl.nl

1.4. Emergency telephone number

Emergency number : +31 (0) 6 2908 2010
During office hours: 8.30 t/m 17:00 h

Country	Organization/Company	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	

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 sensitization Category 1	H317
Carcinogenicity Category 2	H351
Specific target organ toxicity (single exposure) Category 3	H335
Specific target organ toxicity (repeated exposure) Category 2	H373

Full text of H statements : see section 16

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07 GHS08

Signal word (CLP) : Danger

Hazardous ingredients : Diphenylmethanediisocyanate, isomeres and homologues

Hazard statements (CLP) : 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 (CLP)	:	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
EUH phrases	:	EUH204 - Contains isocyanates. May produce an allergic reaction
Extra phrases	:	Labeling according to Regulation (EC) No. 1272/2008 [CLP]
Security closing plug for children.	:	No
Tactile warning	:	No

2.3. Other hazards

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.

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Diphenylmethanediisocyanate, isomeres and homologues	(CAS No) 9016-87-9	50 - 100	Acute Tox. 4 (Inhalation), 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-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	:	Assure fresh air breathing. 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 of doctor. Never give anything by mouth to an unconscious person.

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

Symptoms/injuries	:	For symptom description, see item 11.

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. Avoid (reject) fire-fighting water to enter 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

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 naked lights. No smoking. Good ventilation of the workplace required. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Remove/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

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EU	Directive 2009/161 / EU; Directive 2006/15 / EC; Directive 2004/37 / EC; Directive 2000/39 / EC.	
Netherlands	Occupational Exposure Limits in Netherlands are set by the Deputy Minister for Social Affairs and Employment. Exposure limit value and information on their status and revision may be found in the Databank of the social and Economic Concil of Netherlands (SER) Values, AF 2011:18.	
USA - ACGIH	Remark (ACGIH)	2012

Diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)		
Netherlands	Grenswaarde TGG 15MIN (ppm)	0.005 ppm

8.2. Exposure controls

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

Eye protection : Use eye protection 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.

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

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 vapor may result, wear approved mask. EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

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
Color	:	brown.
Odor	:	No data available
Odor threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	> 300 °C
Flash point	:	205 °C
Auto-ignition temperature	:	> 600 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapor pressure	:	0.01 Pa
Relative vapor density at 20 °C	:	No data available
Relative density	:	No data available
Specific gravity / density	:	1.22 g/cm³ (25°C)
Solubility	:	Insoluble in water.
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	1000 mPa.s
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Explosion limits	:	No data available

9.2. Other information

No additional information available

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 toxicological effects

Acute toxicity : In the absence of toxicological test data of the product the potential hazards of the product to human health will be evaluated based on the properties of the material contained herein, in accordance with the criteria laid down by the relevant legislation on the classification. Take for that reason, the concentration of the individual, possibly dangerous substances listed in Part 3 into account in assessing the toxicological effects of exposure to the product. Harmful by inhalation. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting. In serious cases, inhalation of the product can cause inflammation and edema of the throat and bronchi, chemical pneumonitis and pulmonary edema. This product can produce functional failures or morphological changes, by repeated and prolonged exposure and / or one must be careful because it can accumulate in the human organism.

if swallowed
Abdominal pain, nausea.
Vomiting
Burning sensation

ATE CLP (dust, mist)	1.500 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 sensitization : Acute toxicity : May cause respiratory irritation. May cause irritation to skin. May cause skin dryness or cracking. Coughing. Risk of lungs edema. Causes sensitization. May cause allergy or asthma symptoms or breathing difficulties if inhaled

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.

However, no sufficient information is available to give a complete assessment.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated exposure) : Data not validated

Aspiration hazard : Not classified

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Viscosity, kinematic	819.67213115 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Diphenylmethanediisocyanate, isomeres and homologues (9016-87-9)	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 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.

12.5. Results of PBT and vPvB assessment

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Results of PBT assessment	< 0.1%

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste 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 / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : 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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	79701B
28. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Carcinogen category 1A or 1B (Table 3.1) or Carcinogen category 1 or 2 (Table 3.2) and listed as follows: Carcinogen category 1A (Table 3.1)/Carcinogen category 1 (Table 3.2) listed in Appendix 1 Carcinogen category 1B (Table 3.1)/Carcinogen category 2 (Table 3.2) listed in Appendix 2	79701B
29. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Germ cell Mutagen category 1A or 1B (Table 3.1) or Mutagen category 1 or 2 (Table 3.2) and listed as follows: Mutagen category 1A (Table 3.1)/Mutagen category 1 (Table 3.2) listed in Appendix 3 Mutagen category 1B (Table 3.1)/Mutagen category 2 (Table 3.2) listed in Appendix 4	79701B
30. Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 classified as Toxic to Reproduction category 1A or 1B (Table 3.1) or Toxic to Reproduction category 1 or 2 (Table 3.2) and listed as follows: Reproductive toxicant category 1A adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 1 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 5 Reproductive toxicant category 1B adverse effects on sexual function and fertility or on development (Table 3.1) or Reproductive toxicant category 2 with R60 (May impair fertility) or R61 (May cause harm to the unborn child) (Table 3.2) listed in Appendix 6	79701B

Contains no REACH candidate substance

Contains no REACH Annex XIV substances.

Other regulations, restrictions 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.

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with the product

Persons suffering from asthma or eczema and persons who have chronic lung diseases, skin or respiratory allergies to isocyanates should not work with the material

The requirements from the Danish Working Environment Authorities regarding work with epoxy resins and isocyanates must be observed during use and disposal

15.2. Chemical safety assessment

Yes

SECTION 16: Other information

Indication of changes:

	Extra phrases	Added	
	Serious eye damage/irritation - comment	Added	
1.2	Function or use category	Added	
1.2	Industrial/Professional use spec	Added	
2.1	Adverse physicochemical, human health and environmental effects	Added	
4.1	First-aid measures after skin contact	Added	
4.1	First-aid measures after inhalation	Added	
4.1	First-aid measures after ingestion	Added	
4.1	First-aid measures after eye contact	Added	
4.2	Symptoms/injuries	Added	
5.3	Firefighting instructions	Added	
5.3	Other information	Added	
7.2	Storage conditions	Added	
8.2	Eye protection	Added	
9.1	Solubility	Added	
12.4	Ecology - soil	Added	
12.5	Results of PBT assessment	Added	
13.1	Waste disposal recommendations	Added	
13.1	Additional information	Added	
15.2	Chemical safety assessment	Added	
16	Abbreviations and acronyms	Added	

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-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Resp. Sens. 1	Respiratory sensitisation Category 1
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
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
EUH204	Contains isocyanates. May produce an allergic reaction

SDS EU (REACH Annex II)

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