

SAFETY DATA SHEET

[in accordance with the regulation no. 1907/2006/EG (REACH)]

Revision:24.02.2018

Version:3/ENG

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1 Product identifier

Trade name: **PLASTIFLOOR® Additive 113**

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

Relevant identified uses: Additive, Acryl-Coating.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **Plasti-Chemie Produktionsgesellschaft mbH**

Address: Falgarding 1
D-08223 Falkenstein
Germany

Telephone/Fax number: +49 3745/74432-0 / +49 3745/74432-27

E-mail address for a competent person responsible of sds: volkmar.lull@plasti-chemie.de

Further information provided by: Mr. Volkmar Lull, +49 3745/74432-0

1.4 Emergency telephone number

Chemtrec: 1-800-424-9300 for US

+1 703-527-3887 outside US

Europa 112

Österreich +43 1 406 43 43

Belgien Poison center (BE): +32 70 245 245

Dänemark Poison Control Hotline (DK): +45 82 12 12 12

Finnland Poison Information Centre (FI):+358 9 471 977

Frankreich ORFILA (FR): + 01 45 42 59 59

Deutschland Giftnotruf Berlin, Tel. 030 30686 790

Poison Center Nord: +49 551 19240 (24h erreichbar, Deutsch und Englisch)

Poison Information Centre Erfurt: +49 361 730730 (Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen c/o HELIOS Klinikum Erfurt Nordhäuser Straße 74, 99089 Erfurt)

Irland National Poisons Information Centre (IE): +353 1 8379964

Island +354 543 2222

Italien Poison Center, Milan (IT): +39 02 6610 1029

Luxemburg 112

Niederlande National Poisons Information Center (NL): +31 30 274 88 88 (NB: this service is only available to health professionals)

Norwegen Poisons Information (NO):+ 47 22 591300

Portugal Poison Information Center (PT): +351 21 330 3284

Spanien Poison Information Service (ES): +34 91 562 04 20

Schweden Poisons Information Center (SV):+46 8 33 12 31

Schweiz Poison Center: Tel 145; +41 44 251 51 51

Großbritannien NHS Direct (UK): +44 (0) 845 46 47; 111

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation (EG) 1272/2008/WE

Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373, Aquatic Chronic 3 H412

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

2.2 Label elements

This substance is graded and classified according to (EG) Nr. 1272/2008 [CLP].

Hazard symbols and signal words

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DANGER

Product identifier

Contains: Prepolymer based on aromatic polyisocyanate,
Diphenylmethane-4,4'-diisocyanate,
Diphenylmethane-diisocyanate, isomers and homologues,
Diphenylmethane-2,4'-diisocyanate,
2,2'-Methylenediphenyl diisocyanate.

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.
H412 Harmful to aquatic life with long lasting effects.

Precaution statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 Wear respiratory protection.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

The components of this mixture do not meet the criteria for PBT or vPvB in accordance of Annex XIII of REACH.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Not applicable.

3.2 Mixture

Chemical characterization: Polyisocyanate based on diphenylmethane diisocyanate

CAS: 67815-87-6 EINECS: - Index number: - REACH-number.: -	<u>Prepolymer based on aromatic polyisocyanate</u> Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, STOT RE 2 H373	50-55 %
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 REACH-number.: 01-2119457014-47-0006	<u>Diphenylmethane-4,4'-diisocyanate</u> Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373	25-30 %
CAS: 32055-14-4 EINECS: 500-079-6	<u>Diphenylmethane-diisocyanate, isomers and homologues</u> Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317,	10-15 %

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Index number: - REACH-number.: 01-2119457024-46-0006	Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373	
CAS: 5873-54-1 EINECS: - Index number: 615-005-00-9 REACH-number.: 01-2119480143-45-0000	<u>Diphenylmethane-2,4'-diisocyanate</u> Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373	5-10 %
CAS: 2536-05-2 EINECS: 219-799-4 Index number: 615-005-00-9 REACH-number: 01-2119927323-43-0000	<u>2,2'-Methylenediphenyl diisocyanate</u> Classification acc. to 1272/2008/WE: Skin Irrit. H315, Skin Sens. 1 H317, Eye Irrit. H319, Acute Tox. 4 H332, Resp. Sens. 1 H334, STOT SE 3 H335, Carc. 2 H351, STOT RE 2 H373	< 0,5 %

Additional information: For the wording of the hazard statements refer to section 16.

ABSCHNITT 4: FIRST AID MEASUREMENTS

4.1 Description of first aid measurements

General information:	Care of personal protection of the first aider.
Inhalation:	Move victim to fresh air and keep calm. Consult doctor if symptoms persist.
Skin contact:	Wash immediately, preferably with cleanser based on polyethylene glycol or with soap and water and rinse thoroughly. Directly remove contaminated clothing. Consult doctor if symptoms persist.
Eye contact:	Wash the eye with the eyelid open for several minutes under running water. Consult doctor if symptoms persist.
Ingestion:	Do not induce vomiting. Rinse mouth with water. Consult doctor if symptoms persist. Show the container or label.

4.2 Most important symptoms and effects, both acute and delayed

The product irritates the respiratory tract and may trigger sensitisation of the skin and respiratory tract. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Extended medical treatment may be required depending on the degree of exposure and the severity of symptoms.

4.3 Indication of any immediate medical attention and special treatment

No further information relevant.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguish media

Suitable extinguish media: CO₂; extinguishing powder, sand. In cases of large fires, water spray should be used
Unsuitable extinguish media: Water jet – risk of propagation of the flame.

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions traces of other toxic substances are possible. Cracked Hydrocarbons, carbon monoxide and carbon dioxide, oxides of nitrogen, isocyanate vapours and hydrogen cyanide.

5.3 Advise for firefighters

Airtight sealed containers may rupture explosively if heated.

Special protective equipment: Self-contained breathing apparatus, chemical-resistant protective clothing.

Additional information: Do not allow contaminated extinguishing water to enter the soil, ground-water or surface waters.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours. Ensure adequate ventilation.

Use personal protective measures. Keep unprotected persons away.

6.2 Environmental precautions

Do not allow product to reach sewage system, water bodies or ground/soil.

6.3 Methods and material for containment and cleaning up

Remove mechanically; cover the remainder with wet, absorbent material (e.g. sawdust, chemical binder based on calcium silicate hydrate, sand). After approx. one hour transfer to waste container and do not seal (evolution of CO₂!). Keep damp in a safe ventilated area for several days.

6.4 Reference to other sections

Disposal: Section 13. Personal protective equipment: Section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Follow general OSH regulations for dangerous chemical substances. Ensure good interior ventilation if product is sprayed (threshold limit refer to section 8). Avoid contact with skin and eyes. Do not breathe vapours. Wash hands thoroughly before breaks and at the end of work. While handling the product do not eat, drink or smoke. Keep working clothes separately. Take off all contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities

General information: Observe country-specific requirements for the storage of hazardous substances.

Requirements for storage rooms and containers:

Store in labelled and closed original container.

Store in well ventilated rooms.

Storage compatibility:

Keep away from foodstuffs, beverages and food.

Additional information:

Keep container tightly closed.

Protect from heat and direct sunlight.

Recommended Storage

temperature:

+5°C up to + 25°C

Storage class:

10

7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with community workplace exposure limits:

Diphenylmethane-4,4'-diisocyanate, CAS 101-68-8

Exposition assessment value 0,05 mg/m³

Diphenylmethane-diisocyanate, isomers and homologues, CAS 9016-87-9

Exposition assessment value 0,05 mg/m³

Diphenylmethane-2,4'-diisocyanate, CAS 5873-54-1

Exposition assessment value 0,05 mg/m³

2,2'-Methylenediphenyl diisocyanate, CAS 2536-05-2

Exposition assessment value 0,05 mg/m³

The product may contain traces of phenylisocyanate

Phenylisocyanate, CAS 103-71-9

Exposition assessment value 0,01 ppm

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DNEL

101-68-8 Diphenylmethane-4,4'-diisocyanate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

5873-54-1 Diphenylmethane-2,4'-diisocyanate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

2536-05-2 2,2'-Methylenediphenyl diisocyanate:

DNEL	Oral	Inhalation	Dermal
Worker, long-term, local effects	1	0,05 mg/m ³	-
Worker, long-term, systemic effects	1	0,05 mg/m ³	-
Worker, short-term, local effects	1	0,1 mg/m ³	28,7 mg/cm ²
Worker, short-term, systemic effects	1	0,1 mg/m ³	50 mg/kg KG/day
Consumers, long-term, local effects	1	0,025 mg/m ³	-
Consumers, long-term, systemic effects	1	0,025 mg/m ³	-
Consumers, short-term, local effects	1	0,05 mg/m ³	17,2 mg/cm ²
Consumers, short-term, systemic effects	20 mg/kg KG/day	0,05 mg/m ³	25 mg/kg KG/day

1) low oral toxicity: DNEL not calculated.

2) Long-term DNEL.

PNEC

101-68-8 Diphenylmethane-4,4'-diisocyanate:

PNEC freshwater >1 mg/L
PNEC seawater >0,1 mg/L

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PNEC sewage treatment plant >1 mg/kg
PNEC soil >1 mg/kg Dry weight
9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues:

PNEC freshwater >1 mg/L
PNEC seawater >0,1 mg/L
PNEC sewage treatment plant >1 mg/kg
PNEC soil >1 mg/kg Dry weight

5873-54-1 Diphenylmethane-2,4'-diisocyanate:

PNEC freshwater >1 mg/L
PNEC seawater >0,1 mg/L
PNEC sewage treatment plant >1 mg/kg
PNEC soil >1 mg/kg Dry weight

2536-05-2 2,2'-Methylenediphenyl diisocyanate:

PNEC freshwater >1 mg/L
PNEC seawater >0,1 mg/L
PNEC sewage treatment plant >1 mg/kg
PNEC soil >1 mg/kg Dry weight

8.2 Exposure controls

General safety and hygiene measures:

Observe the usual precautions for handling chemicals.
Keep away from foodstuff, beverages and food.
Directly remove contaminated clothing.
Wash hand thoroughly before breaks and at the end of work.
Separate storage of protective clothing.
Avoid contact with skin and eyes.
Do not eat/drink/smoke/snuff during work.

Respiratory protection:

Not required with adequate ventilation.
At inadequate ventilation use respiratory protection.



Combination filter A-P2 (organic Vapours-Particles)

Hand protection:

Only use chemical protective gloves with CE labelling of Category III according to EN 374.



Selection of the glove material on consideration of the permeation times, rates of diffusion and the degradation.

Glove material:

The selection of an adequate glove not only depends on the material, but also from different other quality characteristics and varies from manufacturer to manufacturer.

Polychloroprene

Butyl rubber

Nitrile rubber

Fluorinated rubber

Penetration time of glove material:

The exact break through time is to be learned from the manufacturer and must be maintained. The break through time is dependent of the activity and usage time

Eye protection:

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Tightly sealed goggles

Body protection:
Protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: Liquid
Colour: Dark brown
Odour: Earthy musty
Odour threshold: Not determined.

Safety relevant basic data:

Parameters

		Unit	Remark
<i>Density:</i>	1,15	g/cm ³	
<i>Bulk density:</i>			not determined
<i>pH value:</i>			not determined
<i>Melting point/Melting range:</i>			not determined
<i>Boiling point/Boiling range:</i>	368	°C	
<i>Flash point:</i>	>250	°C	DIN EN 22719
<i>Inflammability (solid/gaseous)</i>			not applicable
<i>Explosion dangerousness:</i>			not determined
<i>lower Explosion limit:</i>			not determined
<i>upper Explosion limit:</i>			not determined
<i>Ignition temperature:</i>			not determined
<i>Decomposition temperature:</i>			not determined
<i>Oxidising potential:</i>			not determined
<i>Vapour pressure:</i>	16	hPa	at 20 °C
<i>Rate of vaporization:</i>			not determined
<i>Water solubility:</i>			immiscible at 15°C
<i>Liposolubility:</i>			not determined
<i>Soluble in:</i>			not determined
<i>Distribution coefficient:</i>			not determined
<i>n-Octanol/Water:</i>			not determined
<i>Viscosity:</i>	5400	mPas	Brookfield
<i>Solvent separation test:</i>			not determined
<i>Solvent content:</i>			not determined

¹ The formation of explosive vapour/air mixtures is possible.

9.2 Other information

VOC: 0,01%

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Polymerises at about 200 °C with evolution of CO₂.

10.3 Possible hazardous reactions

Exothermic reactions with amines and alcohols. Reacts with water forming CO₂. In closed containers, risk of bursting owing to increase of pressure.

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10.4 Conditions to avoid	No further relevant information available.
10.5 Incompatible materials	No further relevant information available.
10.6 Hazardous decomposition products	No hazardous decomposition products known when stored and handled correctly.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
<u>Acute Toxicity:</u>	
<u>Relevant LD/LC50 Values:</u>	
Oral	product: LD50 (Rat) > 5000 mg/kg
Dermal	67815-87-6 Prepolymer based on aromatic polyisocyanate: LD50 (Rabbit) > 9400 mg/kg 101-68-8 Diphenylmethane-4,4'-diisocyanate: LD50 (Rabbit) > 9400 mg/kg 9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues: LD50 (Rabbit) > 9400 mg/kg 5873-54-1 Diphenylmethane-2,4'-diisocyanate: LD50 (Rabbit) > 9400 mg/kg 2536-05-2 2,2'-Methylenediphenyl diisocyanate: LD50 (Rabbit) > 9400 mg/kg
Inhalation	67815-87-6 Prepolymer based on aromatic polyisocyanate: Converted acute toxicity point estimate 1,5 mg/l 101-68-8 Diphenylmethane-4,4'-diisocyanate: LC50 (Rat) > 0,368 mg/l / 4 h 9016-87-9 Diphenylmethane-diisocyanate, isomers and homologues: LC50 (Rat) > 0,31 mg/l / 4 h 5873-54-1 Diphenylmethane-2,4'-diisocyanate: LC50 (Rat) > 0,387 mg/l / 4 h 2536-05-2 2,2'-Methylenediphenyl diisocyanate: LC50 (Rat) > 0,527 mg/l / 4 h
<u>Irritation to the skin:</u>	Causes skin irritation.
<u>Serious eye damage/irritation:</u>	Causes serious eye irritation.
<u>Sensitization:</u>	May cause allergic reactions.
<u>Risk of aspiration toxicity:</u>	Based on available data the classification criteria are not met.
<u>CMR effects:</u>	
Carcinogenicity	Based on available data the classification criteria are not met.
Germ cell mutagenicity	Based on available data the classification criteria are not met.
Reproductive toxicity	Based on available data the classification criteria are not met.
<u>Other information:</u>	
STOT – Single exposure	May cause respiratory irritation.
STOT – Repeated exposure	May cause damage to organs through prolonged or repeated.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity	
<u>Aquatic Toxicity:</u>	
Product:	EC 50 (daphnia magna): 83 mg/l / 48 h (OECD 202)

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ErC 50 (desmodesmus subspicatus): > 100 mg/l / 72 h (OECD 201)
LC 50 (brachydanio rerio): > 100 mg/l / 96 h
NOEC (daphnia magna): > 10 mg/l (OECD 202 Part 2, 21d)
EC 50 (activated sludge): > 100 mg/L / 3 h (OECD 209)

12.2 Persistence and degradability

Biodegradability:

Product: OECD 301 D Biodegradation: 0%, 23d; Not potentially degradable

Stability in water:

Product: OECD 111 Half-life time: 20 h at 25 °C (pH 7)

Volatility (Henry's law constant):

Product: Calculated value = 0.0299 Pa * m³ / mol

The product is classified as biologically not readily degradable. It hydrolyses rapidly in water and is classified as slightly volatile from water.

12.3 Bioaccumulative potential

Enrichment in aquatic organisms is not to be expected.

12.4 Mobility in Soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

The PBT/vPvB criteria of REACH are not applicable for this substance.

12.6 Other adverse effects

Ecotoxic effects:

The product is classified as harmful to aquatic life with long lasting effects.

General information:

Do not allow product to reach ground water, sewers or into the sewage system.

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents. Previous experience shows that polyuria is inert and non-degradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods for the product:

After final product withdrawal, all residues must be removed from containers. Once the product residues adhering to the walls of the containers have been removed harmless, the product and hazard labels must be invalidated. These containers can be returned for recycling to the appropriate centres set up within the framework of the existing take-back scheme of the chemical industry. Containers must be recycled in compliance with national legislation and environmental regulations.

None disposal into waste water.

SECTION 14: TRANSPORT INFORMATION

14.1 UN-Number

Not dangerous goods

14.2 UN proper shipping name

ADR Not dangerous goods

IMDG, IATA Not dangerous goods

14.3 Transport hazard class(es)

Not dangerous goods

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14.4 Packing group

Not dangerous goods

14.5 Environmental hazards

Not dangerous goods.

14.6 Special precautions for user

Not dangerous goods.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Transport/Additional information:

Not dangerous cargo.

Irritating to skin and mucous membranes.

Keep separated from foodstuffs.

SECTION 15: REGULATORY INFORMATION

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

National regulations

This product has to be labelled in accordance with the Ordinance on Hazardous Substances in the latest version.

Employment restrictions

Observe employment restrictions for young people.

Observe employment restrictions for expectant and nursing mothers.

Water hazard class:

WGK 1 (self-classification): slightly water endangering.

Other regulations, limitations and prohibitive regulations

Note:

Apply the appropriate local regulations.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for:

Diphenylmethane-2,4'-diisocyanate,

Diphenylmethane-diisocyanate, isomers and homologues,

Diphenylmethane-2,4'-diisocyanate,

2,2'-Methylenediphenyl diisocyanate

SECTION 16: OTHER INFORMATION

Additional details:

Classification was made based on the data on the content of hazardous substances using the calculation method based on the guidelines of regulation 1272/2008/EC (CLP).

Relevant Phrases:

H315 Causes skin irritation.

H317 May cause 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.

H411 Harmful to aquatic life with long lasting effects.