

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 03.09.2024

Version number 23 (replaces version 22)

Revision: 03.09.2024

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

- **1.1 Product identifier**
- **Creation date version 1** 10.06.2003
- **Trade name** NEUKADUR Flexible Compound HS 75 comp. B
- **Article number:** P1518
- **Utilization of the substance of the formulation:**  
Hardener for polyols for the production of polyurethanes
- **UFI:** 62AE-9FJC-J00S-3MX6
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ALTROPOL KUNSTSTOFF GmbH  
Rudolf-Diesel-Str 9 - 13  
D-23617 Stockelsdorf  
Tel. +49 (0)451-49960-0  
Fax. +49 (0)451-49960-20  
e-mail: info@altropol.de
- **Further information obtainable from:** environment protection department
- **1.4 Emergency telephone number:**  
During normal opening times (7 am - 5 pm )  
phone : +49 (0)451-49960-0  
National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)  
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)  
CHEMTREC Emergency Phone Numbers (24 hours / 7 days)  
Ireland:  
+353 1 901 4670
- Other countries:  
Country / Language / Emergency Phone Number  
Bulgaria / Bulgarian / +359 32 570 104  
Croatia / Croatian / +385 1 7776 920  
Estonia / Estonian / +372 668 1294  
Iceland / Icelandic / +354 539 0655\*  
Lithuania / Lithuanian / +370 5 214 0238  
Luxembourg / Luxembourgish, French, and German / +352 20 20 24 16  
Macedonia / Macedonian / +389 2 551 7456\*  
Russia / Russian / 8 (800) 100-63-46\*  
Slovakia / Slovak / +421 2/330 579 72  
Ukraine / Ukrainian / +380 94 710 1374  
\*This phone number is not guaranteed outside the listed country.

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## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

- |               |                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------|
| Resp. Sens. 1 | H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.                     |
| Carc. 2       | H351 Suspected of causing cancer.                                                                   |
| STOT RE 2     | H373 May cause damage to the lung and the respiratory tract through prolonged or repeated exposure. |



GHS09 environment

- |                   |                                                            |
|-------------------|------------------------------------------------------------|
| Aquatic Chronic 1 | H410 Very toxic to aquatic life with long lasting effects. |
|-------------------|------------------------------------------------------------|



GHS07

- |               |                                           |
|---------------|-------------------------------------------|
| Acute Tox. 4  | H332 Harmful if inhaled.                  |
| Skin Irrit. 2 | H315 Causes skin irritation.              |
| Eye Irrit. 2  | H319 Causes serious eye irritation.       |
| Skin Sens. 1  | H317 May cause an allergic skin reaction. |
| STOT SE 3     | H335 May cause respiratory irritation.    |

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07



GHS08



GHS09

- **Signal word** *Danger*
- **Hazard-determining components of labelling:**  
4,4'-diphenyl-methane diisocyanate. oligomeric
- **Hazard statements**  
H332 Harmful if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to the lung and the respiratory tract through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear respiratory 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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Additional information:**

EUH204 Contains isocyanates. May produce an allergic reaction.

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

**2.3 Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

**Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 25686-28-6 NLP: 500-040-3	4,4'-diphenyl-methane diisocyanate. oligomeric ⚠ Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; ⚠ Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	50-75%
CAS: 38640-62-9 EINECS: 254-052-6	alkylated aromatic hydrocarbon ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 1, H410	25-50%
CAS: 126-73-8 EINECS: 204-800-2	tributyl phosphate ⚠ Carc. 2, H351; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	≥0.25-<1%

**Additional information:** For the wording of the listed hazard phrases refer to section 16.

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**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Immediately remove any clothing soiled by the product.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Involve doctor immediately.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:**

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

If skin irritation continues, consult a doctor.

**After eye contact:**

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor.

**After swallowing:**

Do not induce vomiting; call for medical help immediately.

Seek immediate medical advice.

If swallowed, rinse mouth with water (only if the person is conscious).

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

The product is irritating to the respiratory tract and may trigger skin and

Respiratory sensitization. Treatment of acute irritation or bronchial

is primarily symptomatic. Depending on the degree of exposure and the

Complaints may be necessary long-term medical care.

**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

**Suitable extinguishing agents:** Extinguishing powder. Do not use water.

**For safety reasons unsuitable extinguishing agents:** Water

**5.2 Special hazards arising from the substance or mixture**

In case of fire, formation of carbon monoxide, nitrogen oxide, isocyanate vapour, and traces of hydrogen cyanide is possible. Fireman have to wear self-contained breathing apparatus. Do not let enter contaminated extinguishing water into the soil, groundwater or surface waters.

**5.3 Advice for firefighters****Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

Cool endangered receptacles with water spray.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures****· 6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin.

Wear protective equipment. Keep unprotected persons away.

Keep people at a distance and stay on the windward side.

**· 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.****· 6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

**· 6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****· 7.1 Precautions for safe handling**

The protective measures necessary when dealing with isocyanates must be observed. Avoid contact with skin and eyes and inhalation of vapors.

Open and handle receptacle with care.

At workplaces or system parts where isocyanate aerosols and / or vapors in higher concentrations can arise (e.g. pressure relief, mold ventilation,

Blowing through mixing heads with compressed air), the

occupational hygiene limit values are prevented. The air movement must be carried out by the people

be done away. The effectiveness of the systems must be checked at regular intervals.

Air limit values mentioned in Chapter 8 must be monitored.

The personal protective measures described in Chapter 8 must be observed. Contact with the skin and eyes as well as the inhalation of the vapors absolutely avoid.

Keep away from food and luxury items. Hands before breaks and at the end of work wash and apply protective skin ointment. Store work clothes separately. Soiled,

Take off soaked clothing immediately.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

**· Information about fire - and explosion protection:**

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Keep container tightly closed and dry and storage in a good ventilated room.
- Storage temperature: 20 - 25 °C.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from water.
- **Further information about storage conditions:**  
Protect from humidity and water.  
Protect from frost.  
Keep container tightly sealed.
- **Storage class: 10**
- **7.3 Denomination of Origin** Made in Germany
- **Processing information** Homogenize content before use
- **General remark** For processing instructions see data sheet

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · **Ingredients with limit values that require monitoring at the workplace:**

##### **126-73-8 tributyl phosphate**

OEEL (Ireland)	Long-term value: 5 mg/m <sup>3</sup>
WEL (Great Britain)	Short-term value: 5 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup>

#### · **DNELs**

##### **25686-28-6 4,4'-diphenyl-methane diisocyanate. oligomeric**

Inhalative	DNEL Acute - local effects	0.05 mg/m <sup>3</sup> (General population) 0.1 mg/m <sup>3</sup> (workers)
	DNEL Long-term - local effects	0.025 mg/m <sup>3</sup> (General population) 0.05 mg/m <sup>3</sup> (workers)

##### **38640-62-9 alkylated aromatic hydrocarbon**

Oral	DNEL Long-term	2.1 mg/kg bw/day (General population)
Dermal	DNEL Long-term	2.1 mg/kg bw/day (General population)
		4.3 mg/kg bw/day (workers)
Inhalative	DNEL Long-term	7.4 mg/m <sup>3</sup> (General population)
		30 mg/m <sup>3</sup> (workers)

##### **126-73-8 tributyl phosphate**

Oral	DNEL systemic effects - long term exposure	0.22 mg/kg bw/d (General population)
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Dermal	DNEL Short term - systemic effects	0.88 mg/kg bw/d (General population)
	DNEL Acute - systemic effects	0.88 mg/kg bw/day (General population) 1.78 mg/kg bw/day (workers)
	DNEL Long-term - systemic effects	0.22 mg/kg bw/day (General population) 0.44 mg/kg bw/day (workers)
	DNEL Short term - local effects	0.88 mg/kg bw/d (General population) 1.78 mg/kg bw/d (workers)
	DNEL Long-term exposure - local effects	0.22 mg/kg bw/d (General population) 0.44 mg/kg bw/d (workers)
Inhalative	DNEL Long-term exposure - systemic effects	0.77 mg/m <sup>3</sup> (General population) 3.13 mg/m <sup>3</sup> (workers)
	DNEL Long-term exposure - local effects	0.77 mg/m <sup>3</sup> (General population) 3.13 mg/m <sup>3</sup> (workers)
	DNEL Acute - local effects	3.08 mg/m <sup>3</sup> (General population) 12.52 mg/m <sup>3</sup> (workers)
	DNEL Short-term exposure - systemic effects	3.08 mg/m <sup>3</sup> (General population) 12.52 mg/m <sup>3</sup> (workers)

**· PNECs**

**25686-28-6 4,4'-diphenyl-methane diisocyanate. oligomeric**

PNEC STP	1 mg/L (sewage plant)
PNEC soil	1 mg/kg (soil ( Boden))
PNEC	1 mg/l (freshwater)
	0.1 mg/l (marine water)
	10 mg/l (intermittent releases)

**38640-62-9 alkylated aromatic hydrocarbon**

Oral	PNEC	25 mg/kg (food)
	PNEC STP	0.15 mg/L (sewage plant)
	PNEC aqua	0.236 ug/L (freshwater)
		0.0236 ug/L (marine water)
	PNEC sediment	0.853 mg/kg (freshwater)
		0.085 mg/kg (marine water)
PNEC soil	0.19 mg/kg (soil ( Boden))	

**126-73-8 tributyl phosphate**

PNEC STP	1 mg/L (sewage plant)
PNEC	0.082 mg/l (freshwater)

**· Additional information:** The lists valid during the making were used as basis.

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· **8.2 Exposure controls**· **Appropriate engineering controls** No further data; see section 7.· **Individual protection measures, such as personal protective equipment**· **General protective and hygienic measures:***Keep away from foodstuffs, beverages and feed.**Immediately remove all soiled and contaminated clothing**Wash hands before breaks and at the end of work.**Avoid contact with the eyes and skin.*· **Respiratory protection:***Full-contained breathing apparatus with a gas mask. The respirators used for protection can be used with Type A filter against organic vapors, where powder or aerosol is present at least with the A / P2 filter.**In case of hypersensitivity of the respiratory tract and skin (asthma, chronic bronchitis, chronic skin disease)**is inadvisable to work with the product. Symptoms in the respiratory tract can also occur several hours after overexposure ..*· **Hand protection***Preventive skin protection (3-point program) required*

Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.**Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.**Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*· **Material of gloves***The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.*· **Penetration time of glove material***Suitable materials for protective gloves, EN 374-3:**Polychloroprene - CR: thickness > = 0.5 mm, breakthrough time > = 480 min.**NBR - NBR: thickness > = 0,35 mm, Breakthrough time > = 480 min.**Butyl rubber - IIR: thickness > = 0.5 mm, breakthrough time > = 480 min.**Fluorine rubber - FKM: thickness > = 0.4 mm; breakthrough time > = 480 min.**Recommendation: Dispose of contaminated gloves ..**The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.*· **Eye/face protection**

Tightly sealed goggles

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· **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

· <b>Colour:</b>	Yellow
· <b>Odour:</b>	Characteristic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	41 °C
· <b>Boiling point or initial boiling point and boiling range</b>	300 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	250 °C
· <b>Auto-ignition temperature:</b>	400 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic at 20 °C:</b>	100 mPas
· <b>Solubility</b>	
· <b>water:</b>	Insoluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C:</b>	1.1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

### · 9.2 Other information

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.0 %
· <b>VOC (EC)</b>	6.4 g/l
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

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**· Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Exothermic reaction with amines and alcohols; reacts with water forming CO<sub>2</sub>, in closed containers risk of bursting owing to increase of pressure.
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5 Incompatible materials:**  
water , alcohol , amine , base and acid  
Incompatible with oxidizing agents, acids
- **10.6 Hazardous decomposition products:** if handled accordingly no products of decomposition.

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Harmful if inhaled.

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<b>LD/LC50 values relevant for classification:</b>		
<b>25686-28-6 4,4'-diphenyl-methane diisocyanate. oligomeric</b>		
Oral	LD50	>2,000 mg/kg (rat) (OECD 425 Acute Oral Toxicity: Up-and-Down Procedure)
Dermal	LD50	>9,400 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)
Inhalative	LC50/4 h	0.368 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)
	LC 50 / 1h	>2.24 mg/l (rat)
<b>38640-62-9 alkylated aromatic hydrocarbon</b>		
Oral	LD50	>4,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)
	NOAEL	~170 mg/kg (rat)
Dermal	LD50	>4,000 mg/kg (rat) (OECD 402 Acute Dermal Toxicity)
Inhalative	LC50/4 h	>5.6 mg/l (rat) (OECD 403 Acute Inhalation Toxicity)
<b>126-73-8 tributyl phosphate</b>		
Oral	LD50	1,552 mg/kg (rat)

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/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** Based on available data, the classification criteria are not met.

- **Carcinogenicity**

Suspected of causing cancer.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure**

May cause respiratory irritation.

- **STOT-repeated exposure**

May cause damage to the lung and the respiratory tract through prolonged or repeated exposure.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

\*

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**25686-28-6 4,4'-diphenyl-methane diisocyanate. oligomeric**

LC50 (96 h) >1,000 mg/l (Danio Rerio)

EC50 (72 h) >1,640 mg/l (Desmodesmus subspicatus)

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EC50 (24h)	>1,000 mg/l (Daphnia Magna)
EC50(3h)	>100 mg/l (sludge)
NOEC / 21d	>10 mg/l (Daphnia Magna)
LC50 (14d)	>1,000 mg/kg (Eisenia fetida (Regenwurm)) (OECD 207 Earthworm, Acute Toxicity Tests)
EC50 (14d)	>1,000 mg/kg (Avena sativa ( Hafer)) (OECD 208 Terrestrial Plant Test)
	>1,000 mg/kg (Lactuca Sativa ( Kopfsalat)) (OECD 208 Terrestrial Plant Test)
<b>38640-62-9 alkylated aromatic hydrocarbon</b>	
LC0(96h)	0.5 mg/l (fish)
EC0 (48h)	0.16 mg/l (D)
LL50 (48h)	1.7 mg/L (D)
EC0 (72h)	0.15 mg/l (A)
NOEC / 21d	0.013 mg/l (D) (OECD 202 Daphnia sp. Acute Immobilisation Test)
<b>126-73-8 tributyl phosphate</b>	
NOEC / 21d	1.3 mg/l (Daphnia Magna)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** Elimination by adsorption onto activated sludge
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
Toxic for aquatic organisms  
Also poisonous for fish and plankton in water bodies.  
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.  
WGK 3 stark wassergefährdend

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must be specially treated adhering to official regulations.  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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· **European waste catalogue** 08 05 01\* Isocyanatabfälle

· **Uncleaned packaging:**

· **Recommendation:**

The empty containers may only be disposed of after the residues stuck to the container walls have been removed.

Disposal according to official regulations.

\*

### SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3082

· **14.2 UN proper shipping name**

· **ADR**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkylated aromatic hydrocarbon)

· **IMDG, IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkylated aromatic hydrocarbon)

· **14.3 Transport hazard class(es)**

· **ADR**



· **Class**

9 (M6) Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

· **14.4 Packing group**

· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**

· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

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· <b>Special marking (IATA):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Miscellaneous dangerous substances and articles.
· <b>Hazard identification number (Kemler code):</b> 90	
· <b>EMS Number:</b>	F-A,S-F
· <b>Stowage Category</b>	A
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	(-)
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ALKYLATED AROMATIC HYDROCARBON), 9, III

\*

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



- **Signal word** *Danger*

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· **Hazard-determining components of labelling:**

4,4'-diphenyl-methane diisocyanate. oligomeric

· **Hazard statements**

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

H373 May cause damage to the lung and the respiratory tract through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P284 [In case of inadequate ventilation] wear respiratory 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.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category E1** Hazardous to the Aquatic Environment

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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· **National regulations:**· **Technical instructions (air):**

Class	Share in %
NK	0.25-1

· **Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

\*

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

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.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH204 Contains isocyanates. May produce an allergic reaction.

· **Recommended restriction of use**

The information in this safety data sheet corresponds to the best of our knowledge at the time of the revision. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product mentioned in this safety data sheet is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.

UFI code is valid in:

Germany

Austria

Portugal

Estonia

Netherlands

Hungary

· **Department issuing SDS:** environment protection department· **Contact:** Herr Ottensmann Tel. +49 (0)2056-25863-7· **Date of previous version:** 30.03.2023

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- **Version number of previous version: 22**
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord relatif au transport international des marchandises dangereuses par route (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 Harmonised 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)
  - DNEL: Derived No-Effect Level (REACH)
  - PNEC: Predicted No-Effect Concentration (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Resp. Sens. 1: Respiratory sensitisation – Category 1
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Carc. 2: Carcinogenicity – Category 2
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
  - Asp. Tox. 1: Aspiration hazard – Category 1
  - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
  - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- **\* Data compared to the previous version altered.**

### Annex: Exposure scenario

- **Description of the activities / processes covered in the Exposure Scenario**  
 See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use**
- **Duration and frequency** 5 workdays/week.
- **Physical parameters**
- **Physical state** Fluid
- **Concentration of the substance in the mixture** Raw material.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**  
 Avoid contact with eyes.  
 Avoid contact with the skin.  
 Avoid long-term or repeated skin contact.  
 Do not breathe gas/vapour/aerosol.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product**  
 Not applicable.

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- **Risk management measures**
- **Worker protection**
- **Organisational protective measures** No special measures required.
- **Technical protective measures**  
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Avoid contact with the eyes.  
Tightly sealed goggles  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
Not necessary if room is well-ventilated.  
Protective gloves  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Measures for consumer protection** Ensure adequate labelling.
- **Environmental protection measures**
- **Water** No special measures required.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging
- **Exposure estimation**
- **Consumer** Not relevant for this Exposure Scenario.
- **Guidance for downstream users** No further relevant information available.

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