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Safety data sheet

Printing date 05.02.2024

according to 1907/2006/EC, Article 31 Version number 19 (replaces version 18) Revision: 05.02.2024 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier Creation date version 1 24.01.2018 • Trade name AltroFoam SF 50 Comp. B · Article number: P2396 • Utilization of the substance of the formulation: Hardener for polyols for the production of polyurethanes · UFI: 49J2-SPCK-6406-YVYC 1.2 Relevant identified uses of the substance or mixture and uses advised against For use in the do-it-vourself section is a further information available, see "Fact Sheet for resellers". • 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) **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, the respiratory system and the respiratory tract through prolonged or repeated exposure. GHS07 Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation. H319 Causes serious eye irritation. Eve Irrit. 2 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



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Signal word	(Contd. of page 1)
Hazard-dete	rmining components of labelling:
diphenvlmet	hane-4.4'-di-isocvanante
dinhenvlmet	hane-2.4'-diisocvanate
diphenvlmet	hanediisocvanate.isomeres and homologues
diphenvlmet	hane-2.2'-diisocvanate
isophthalovl	l dichloride
Hazard state	ements
H332 Harm	ful if inhaled.
H315 Cause	s skin irritation.
H319 Cause	s serious eye irritation.
H334 May c	ause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May c	ause an allergic skin reaction.
H351 Suspe	cted of causing cancer.
H335 May c	ause respiratory irritation.
H373 May c repeat	cause damage to the lung, the respiratory system and the respiratory tract through prolonged or ted exposure.
Precautiona	<i>irv statements</i>
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 i	nformation:
EUH204 Co	ntains isocyanates. May produce an allergic reaction.
As from 24 A	August 2023 adequate training is required before industrial or professional use.
2.3 Other ho	nzards
The product	t does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or
formaldehya	les.
Results of P	BT and vPvB assessment
PBT: Not ap	pplicable.
vPvB: Not a	pplicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• Description: Mixture: consisting of the following components.

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Dangerous components	s:	
CAS: 101-68-8 EINECS: 202-966-0	diphenylmethane-4,4'-di-isocyanante 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 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	25-50%
CAS: 5873-54-1 EINECS: 227-534-9	diphenylmethane-2,4'-diisocyanate	25-50%
CAS: 9016-87-9 EC number: 618-498-9	diphenylmethanediisocyanate, isomeres and homologues 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 Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5$ % Skin Irrit. 2; H315: $C \ge 5$ % Resp. Sens. 1; H334: $C \ge 0.1$ % STOT SE 3; H335: $C \ge 5$ %	10-25%
CAS: 2536-05-2 EINECS: 219-799-4	diphenylmethane-2,2'-diisocyanate	≥2.5-<5%
CAS: 99-63-8 EINECS: 202-774-7	isophthaloyl dichloride Acute Tox. 3, H331; ↔ Skin Corr. 1A, H314; Eye Dam. 1, H318; Acute Tox. 4, H312	0.1-0.25%

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.

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; consult doctor in case of complaints.

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

- After skin contact:
- In contact with the skin preferably with cleaners based
- *Polyethylene wash or clean with plenty of hot water and soap. In reactions of Skin doctor immediately.*

If skin irritation continues, consult a doctor.

- After eye contact:
- *Rinse opened eye for several minutes under running water. Then consult a doctor. Protect unharmed eye.*

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- · After swallowing:
- Do not induce vomiting; call for medical help immediately.
- If swallowed, rinse mouth with water (only if the person is conscious).

A person vomiting while laying on their back should be turned onto their side.

- Call a doctor immediately.
- 4.2 Most important symptoms and effects, both acute and delayed May cause respiratory sensitization or asthma-like symptoms
- 4.3 Indication of any immediate medical attention and special treatment needed

The product irritates the respiratory tract and may trigger skin and respiratory sensitization. Treatment of acute irritation or bronchial constriction is primarily symptomatic. Depending on the extent of exposure and the symptoms may be necessary a longer medical attention.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 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.

At ambient pressure build fire, danger of bursting. Cool fire exposed containers with water and if possible remove from the danger zone.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device. Wear chemical resistant overalls

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

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

Remove mechanically, with residual wet, absorbent material (eg sawdust, chemical binder based on Calcium silicate hydrate, sand). After approx 1 hour transfer to waste container and do not seal (evolution of CO2). Keep damp in a safe ventilated area for several Leave days.

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

Exhaust ventilation necessary if product is sprayed. Avoid contact with skin and eyes. The air should be drawn away from the personnel handling the product. 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.

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Keep away from foo	d and luxury items. Hands before breaks and at the end of work (Contd. of page 4)
wash and apply prot	ective skin ointment. Store work clothes separately. Soiled,
Take off soaked clot	hing immediately.
and eves and inhala	ures necessary when dealing with isocyandles must be observed. Avoid contact with skin
· Information about 1	ire - and explosion protection:
Protect against elect	rostatic charges.
Keep ignition source	rs away - Do not smoke.
• 7.2 Conditions for s	afe storage, including any incompatibilities
· Storage:	mat by stanguages and use anterlass
Keen container tight	we by storerooms und receptacies. hy closed and dry and storage in a good ventilated room
neep container tight	y closed and dry and slorage in a good ventilated room.
Storage temperature	: 20 - 25 °C.
• Information about s	torage in one common storage facility:
Store away from wa	er.
Store away from foo	dstuffs.
• Further information	b sealed
Protect from frost	iy seuleu.
Protect from humidi	ty and water.
Protect from heat an	d direct sunlight.
• Storage class: 10	
• 7.3 Denomination of	f Origin Made in Germany
• Processing informa	tion Homogenize content before use
• General remark For	processing instructions see data sheet
SECTION 8: Ex	posure controls/personal protection
· 8.1 Control parame	ters
· Ingredients with lim	it values that require monitoring at the workplace:
101-68-8 diphenylm	ethane-4,4'-di-isocyanante
OEL (Ireland)	Long-term value: 0.005 ppm as -NCO: Sens
WFL (Great Britain	Short-term value: 0.07 mg/m ³
, LL (Great Britain)	Long-term value: 0.02 mg/m^3

	Sen; as -NCO
5873-54-1 diphenyln	nethane-2,4'-diisocyanate
OEL (Ireland)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ as -NCO; Sens.
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
9016-87-9 diphenyln	nethanediisocyanate, isomeres and homologues
OEL (Ireland)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ as -NCO; Sens.
WEL (Great Britain)	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
2536-05-2 diphenyln	nethane-2,2'-diisocyanate
OEL (Ireland)	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³ as -NCO; Sens.
	(Contd. on page 6



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	Long-term value: 0.02 mg/m ³	
	Sen; as -NCO	
DNELs		
101-68-8 a	liphenylmethane-4,4'-di-isocyanante	
Oral	DNEL Acute - systemic effects	20 mg/kg bw/day (General population)
Dermal	DNEL Acute - local effects	17.2 mg/cm ² (General population)
		28.7 mg/cm ² (workers)
	DNEL Acute - systemic effects	25 mg/kg bw/day (General population)
		50 mg/kg bw/day (workers)
Inhalative	DNEL systemic effects - long term exposure	0.025 mg/m ³ (General population)
		0.05 mg/m^3 (workers)
	DNEL local effects - long term exposure	0.025 mg/m ³ (General population)
		0.05 mg/m^3 (workers)
	DNEL Acute - systemic effects	0.05 mg/m ³ (General population)
		0.1 mg/m^3 (workers)
	DNEL Acute - local effects	0.05 mg/m ³ (General population)
		0.1 mg/m^3 (workers)
5873-54-1	diphenylmethane-2,4'-diisocyanate	
Oral	DNEL Acute systemic effects - short term	20 mg/kg bw/day (General population)
Dermal	DNEL Acute systemic effects - short term	25 mg/kg bw/day (General population)
		50 mg/kg bw/day (workers)
	DNEL Acute local effects - short term	17.2 mg/cm ² (General population)
		28.7 mg/cm^2 (workers)
Inhalative	DNEL Acute systemic effects - short term	0.05 mg/m^3 (General population)
		0.1 mg/m^3 (workers)
	DNEL systemic effects - long term exposure	0.025 mg/m^3 (General population)
		0.05 mg/m^3 (workers)
	DNEL Acute local effects - short term	0.05 mg/m^3 (General population)
		0.1 mg/m^3 (workers)
	DNEL Acute local effects - long term	0.05 mg/m^3 (workers)
	DNEL local effects - long term exposure	0.025 mg/m^3 (General population)
2536-05-2	diphenylmethane-2,2'-diisocyanate	
Inhalative	DNEL systemic effects - long term exposure	0.025 mg/m ³ (General population)
	DNEL local effect - long term	0.025 mg/m^3 (General population)
		0.05 mg/m^3 (workers)
	DNEL Acute - local effects	0.05 mg/m ³ (General population)
00 (2 2 :		U.1 mg/m [°] (workers)
99-63-8 ise	ophthaloyl dichloride	
Dermal	DNEL systemic effects - long term exposure	4.4 / mg/kg bw/d (workers)
innalative	DNEL systemic effects - long term exposure	5.94 mg/m ³ (workers)
PNECs		
101-68-8 a	liphenylmethane-4,4'-di-isocyanante	
PNEC	1 mg/kg (soil (Boden))	
PNEC STP	$P \mid 1 mg/L \text{ (sewage plant)}$	
PNEC	1 mg/l (freshwater)	

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	10 mg/l (in	itermittent releases)
5873-54-	1 diphenylme	thane-2,4'-diisocyanate
PNEC	>1 mg/kg ((soil (Boden))
PNEC	>1 mg/l (fr	reshwater)
	>0.1 mg/l	(marine water)
	>1 mg/l (se	ewage plant)
2536-05-	2 diphenylme	thane-2,2'-diisocyanate
PNEC	l mg/kg (se	oil (Boden))
PNEC	1 mg/l (fre	shwater)
	0.1 mg/l (n	narine water)
	1 mg/l (sev	vage plant)
	10 mg/l (in	ntermittent releases)
99-63-8 i	isophthaloyl d	ichloride
PNEC	0.6365 mg	/kg (freshwater- sediment)
	0.0637 mg	/kg (seawater - sediment)
	0.0492 mg	/kg (soil (Boden))
PNEC	0.133 mg/l	(freshwater)
	0.0133 mg	/l (marine water)
	6 171 mg/l	(sewage nlant)
	1 337 mg/l	(intermittent releases)
7 11	1.557 mg/t	
· Ingredie	nts with biolog	zical limit values:
101-68-8	diphenylmeth	hane-4,4'-di-isocyanante
BMGV (C	Great Britain)	1 μmol creatinine/mol Madium: urine
		Sampling time. At the end of the period od exposure
		Parameter: isocyanate-derived diamine
5873-54-	1 diphenylme	thane-2,4'-diisocyanate
BMGV (C	Great Britain)	1 μmol creatinine/mol
		Medium: urine
		Sampling time: At the end of the period od exposure
		Parameter: isocyanate-derived diamine
2536-05-	2 diphenylme	thane-2,2'-diisocyanate
BMGV (C	Great Britain)	I μmol creatinine/mol
		Mealum: urine Sampling time: At the end of the period of exposure
		Parameter: isocvanate-derived diamine
· Addition	al information	n • The lists valid during the making were used as basis
0.2 5		The lists fully and highly here used as outlis.
• 8.2 EXP0 • Annronri	sure controls iate engineeri	ng controls No further data: see section 7
·Individu	al protection n	neasures, such as personal protective equipment
· General	protective and	I hygienic measures:
Keep awa	ay from foodst	uffs, beverages and feed.
Immediat Wash has	tely remove all	l soiled and contaminated clothing
Avoid co	nas bejore bre ntact with the	aks and at the ena of work. eves and skin
· Respirate	orv protection.	:
An inade	quately ventild	ated places and during spraying respirator
required	l. We recomme	end using a self-contained breathing apparatus.
In case o	f hypersensitiv	vity of the respiratory tract and skin (asthma, chronic bronchitis, chronic skin disease)
is inadvis	sable to work	with the product. Symptoms in the respiratory tract can also occur several hours afte
overexpo	รมาย	(Contd. on page



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· Hand protection



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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

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

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties		
• 9.1 Information on basic physical and chemical p	properties	
· General Information	1	
· Colour:	Brown	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· Melting point/freezing point:	41 °C	
Boiling point or initial boiling point and boiling		
range	<i>ca. 230 °C</i>	
· Flammability	Not applicable.	
Lower and upper explosion limit		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	<i>ca. 200 °C</i>	
· Auto-ignition temperature:	400 °C	
· Decomposition temperature:	Not determined.	
· pH	Not determined.	
· Viscosity:		
· Kinematic viscosity	Not determined.	
· Dynamic at 20 °C:	250 mPas	
· Solubility		
water:	Insoluble.	
Partition coefficient n-octanol/water (log value)	Not determined.	
· Vapour pressure at 25 °C:	0.0001 hPa	
· Density and/or relative density		
Density at 20 °C:	$1.22 \ g/cm^3$	
· Relative density	Not determined.	
Vapour density	Not determined.	

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· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of healt	h and
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	0.0 %
· VÕC (EC)	0.0 g/l
Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard c	lasses
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flamma	able
gases in contact with water	Void
· Oxidising liquids	Void
• Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

Diisocyanates react with many materials where the reaction rate with

the temperature and with increasing contact increases and the reactions can be severe.

Contact is increased by stirring or by mixing of another substance with

Diisocyanate. Diisocyanates are not soluble in water, sink to the bottom but react slowly at the

Interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. In

the reaction with water to form carbon dioxide and heat.

- · 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 C02, in closed containers risk of bursting owing to increase of pressure.

- 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: water , alcohol , amine , base and acid
- 10.6 Hazardous decomposition products: At the air > 300 °C: acrolein

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^{· 10.1} Reactivity



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SECTIO	DN 11: Ta	oxicological information
· 11.1 Infor	mation on	hazard classes as defined in Regulation (EC) No 1272/2008
Harmful it	f inhaled	
· LD/LC50	values rele	want for classification:
101-68-8	diphenvlme	ethane-4.4'-di-isocvanante
Oral	LD50	>2.000 mg/kg (rat)
Dermal	LD50	>9.400 mg/kg (rabbit) (OECD 402 Acute Dermal Toxicity)
5873-54-1	diphenyln	nethane-2,4'-diisocyanate
Oral	LD50	>2.000 mg/kg (rat)
Dermal	LD50	>9.400 mg/kg (rabbit) (OECD 402 Acute Dermal Toxicity)
9016-87-9	diphenyln	nethanediisocyanate, isomeres and homologues
Oral	LD50	>2.000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)
Dermal	LD50	>9.400 mg/kg (rabbit) (OECD 402 Acute Dermal Toxicity)
2536-05-2	dinhenvln	nethane-2.2'-diisocvanate
Oral	LD50	>2.000 mg/kg (rat)
Dermal	LD50	>9.400 mg/kg (rabbit) (OECD 402 Acute Dermal Toxicity)
99-63-8 is	ophthalovl	dichloride
Oral	LD50	>2.000 mg/kg (rat)
Dermal	LD50	1.410 mg/kg (rat)
Inhalative	LC50/4 h	1.5 mg/l(rat)
· Skin corre	sion/irrita	tion
Causes ski	in irritation	
· Serious ey	e damage/	irritation
Causes ser	rious eye ir	ritation.
· Respirator	ry or skin s	ensitisation
May cause	e an allergi	c skin reaction
· Germ cell	mutagenic	<i>ity</i> Based on available data, the classification criteria are not met.
· Carcinoge	enicity	
Suspected	of causing	cancer.
· Reproduci	tive toxicity	v Based on available data, the classification criteria are not met.
· SIUI-sing	gie exposu	re primitation
· STOT-ren	eated expo	sure
May caus	e damage	to the lung, the respiratory system and the respiratory tract through prolonged of
repeated e	exposure.	
· Aspiration	n hazard Ba	used on available data, the classification criteria are not met.
· 11.2 Infor	mation on	other hazards
None of th	e uisrupung	s properues nte is listad
wone of th	e ingreuier	<i>us is usicu.</i>

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity:

101-68-8 diphenylmethane-4,4'-di-isocyanante

LC50 (96 h) >1,000 mg/l (Danio Rerio) (OECD 203 Fish, Acute Toxicity Test)

EC50 (24h) >1,000 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)

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EC50(3h)	>100 mg/l (activated sludge) (OECD209Activated Sluge,Respiration Inhibition Test)
NOEC / 21d	>10 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)
NOEC / 14d	>1,000 mg/kg (Eisenia fetida (Regenwurm)) (OECD 207 Earthworm, Acute Toxicity Tests)
	>1,000 mg/kg (Avena sativa (Hafer)) (OECD 208 Terrestrial Plant Test)
	>1,000 mg/kg (Lactuca Sativa (Kopfsalat)) (OECD 208 Terrestrial Plant Test)
ErC50/72h	>1,640 mg/l (Scenedesmus subspicatus) (OECD 201 Alga, Growth Inhibition Test)
5873-54-1 di	phenylmethane-2,4'-diisocyanate
LC50 (96 h)	>1,000 mg/l (Danio Rerio) (OECD 203 Fish, Acute Toxicity Test)
EC50 (24h)	>1,000 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)
EC50(3h)	>100 mg/l (activated sludge) (OECD209Activated Sluge,Respiration Inhibition Test)
NOEC / 21d	>10 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)
NOEC / 14d	>1,000 mg/kg (Eisenia fetida (Regenwurm)) (OECD 207 Earthworm, Acute Toxicity Tests)
	>1,000 mg/kg (Avena sativa (Hafer)) (OECD 208 Terrestrial Plant Test)
	>1,000 mg/kg (Lactuca Sativa (Kopfsalat)) (OECD 208 Terrestrial Plant Test)
ErC50/72h	>1,640 mg/l (Scenedesmus subspicatus) (OECD 201 Alga, Growth Inhibition Test)
9016-87-9 di	phenylmethanediisocyanate, isomeres and homologues
LC50 (96 h)	>1,000 mg/l (Danio Rerio) (OECD 203 Fish, Acute Toxicity Test)
EC50(24h)	>1,000 mg/l (Daphnia Magna) (OECD 202)
EC50(3h)	>100 mg/l (activated sludge) (OECD209Activated Sluge, Respiration Inhibition Test)
NOEC / 21d	>10 mg/l (Daphnia Magna) (OECD 211 Daphnia Magna Reproduction Test)
NOEC / 14d	>1,000 mg/kg (Eisenia fetida (Regenwurm)) (OECD 20/ Earthworm, Acute Toxicity Tests)
	>1,000 mg/kg (Avena sativa (Hafer)) (OECD 208 Terrestrial Plant Test)
E (50/72)	>1,000 mg/kg (Lactuca Sativa (Kopjsalat)) (OECD 208 Terrestrial Plant Test)
ErC 50/72n	>1,640 mg/l (Scenedesmus subspicatus) (OECD 201 Alga, Growth Inhibition Test)
2550-05-2 all	pnenyimeinane-2,2'-alisocyanale
EC50(90 h) EC50(72 h)	>1,600 mg/l (Danio Rerio) (OECD 205 Fish, Actue Toxicity Test) >1.640 mg/l (Second communications) (OECD 201 Alage Crowth Inhibition Test)
EC30(72 n) EC50(24h)	>1,040 mg/l (Scenedesmus subspicalus) (OECD 201 Alga, Growin Innibilion Test) >1,000 mg/l (Daphnia Magna) (OECD 202 Daphnia ap. Acuta Immobilization Test)
EC50(24n) EC50(2h)	>1,000 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test) >100 mg/l (activated sludge) (OECD 200 Activated Sluge Perpiration Inhibition Test)
ECJ0(JR)	>10 mg/l (activated studge) (OECD209Activated studge, Respiration Innibition Test) >10 mg/l (Daphnia Magna) (OECD 202 Daphnia on Acute Immedilisation Test)
NOEC / 21d	>10 mg/t (Dupinitu Mugnu) (OECD 202 Dupinitu Sp. Acute Immobilisation Test)
NOEC / 14u	> 1,000 mg/kg (Lisenia jeliau (Regenwarm)) (OECD 207 Earlinworm, Acute Toxicity Tesis)
	>1,000 mg/kg (Lactuca Sativa (Konfsalat)) (OFCD 200 Terrestrial Plant Test)
99-63-8 ison	hthalovl dichloride
LC50 (96 h)	134 mg/l (Elritze (Pimenhales promelas))
EC50 (48 h)	>952 mg/l (Danhnia Magna) (OECD 202 Danhnia sp. Acute Immobilisation Test)
EC50(3h)	617 mg/l (activated sludge) (OECD209Activated Sluge Respiration Inhibition Test)
ErC50(96h)	>996 mg/l (Desmodesmus subspicatus) (OECD 201 Alga, Growth Inhibition Test)
· 12.2 Persiste	nce and degradability No further relevant information available.
· 12.3 Bioaccu	mulative potential No further relevant information available.
12.4 Mobility	v in soil No further relevant information available.
• 12.5 Kesuits • PBT: Not an	oj PBT ana vPvB assessment nlicable
• vPvB: Not ap	pplicable.
12.6 Endocr	ine disrupting properties
The product	does not contain substances with endocrine disrupting properties.
Isocvanate v	uverse effects reacts with water at the interface to form carbon dioxide to form a solid. high-melting and
insoluble red	action product (polyurea). This reaction is strongly promoted by surfactants or water-soluble
solvents. Pol	yurea is inert Previous experience and non-degradable.

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• Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Dispose in accordance with applicable international, national and local laws, ordinances and statutes. For disposal within the EC, the appropriate waste code according to the European Waste Catalogue (EWC) should be used.

No disposal via the sewage

· Uncleaned packaging:

· Recommendation:

Packaging must be emptied directly after the last product removal (tear drops, powder rest, scraped carefully). After neutralization of adhering to the walls of residues are product and labeling of hazardous substances to devalue. These packages can packaging-specifically to access points to the existing collection systems chemical industry will be given for recycling. Containers must be recycled in accordance with national legislation and environmental regulations occur.

SECTION 14: Transport information	n
· 14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable.
• 14.6 Special precautions for user	Not dangerous cargo. Sensitive to frost below 10 ° C. Avoid heat above +50 ° C. Protect from moisture. Keep away from food, foodstuff, acids and alkalis.
• 14.7 Maritime transport in bulk according to instruments	<i>p IMO</i> Not applicable.
· UN "Model Regulation":	Void

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.

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· Hazard pictog	grams (Contd. of page 1
GHS07 GI	HS08
Signal word I	Danger
Hazard-deter	mining components of labelling.
diphenvlmeth	ane-4.4'-di-isocvanante
diphenylmeth	ane-2,4'-diisocyanate
diphenylmetho	anediisocyanate, isomeres and homologues
diphenylmetho	ane-2,2'-diisocyanate
isophthaloyl a	lichloride
· Hazard staten	nents
H332 Harmfu	l if inhaled.
H315 Causes	skin irritation.
H319 Causes	serious eye irritation.
H334 May cat	use allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cat	use an allergic skin reaction.
H351 Suspect	ed of causing cancer.
H335 May cat	use respiratory irritation.
H3/3 May ca	use damage to the lung, the respiratory system and the respiratory tract through prolonged
repeated Drawner i an arr	a exposure.
• Precautionary	y statements
P200 P200	Do not oreaine ausi/jume/gas/misi/vapours/spray.
P200	wear protective gloves/protective clothing/eye protection/jace protection/neurin
D781	protection.
$P_{207} = P_{207} = P_{2$	P338 IF IN FYFS: Rinse cautiously with water for several minutes Remove contact lenses
1 505 +1 551 +	present and easy to do Continue rinsing
P405	Store locked un
P501	Dispose of contents/container in accordance with local/regional/national/internation
1001	regulations.
• Directive 201.	2/18/EU
· Named dange	rrous substances - ANNEX I None of the ingredients is listed.
· REGULATIO	VN (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 36a, 36b, 36c, 74
· DIRECTIVE electronic equ	2011/65/EU on the restriction of the use of certain hazardous substances in electrical an upment – Annex II
None of the in	gredients is listed.
REGULATIO	N (EU) 2019/1148
· Annex I - RE under Article	STRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensin 5(3))
None of the in	gredients is listed.
· Annex II - RI	EPORTABLE EXPLOSIVES PRECURSORS
None of the in	gredients is listed.
· Regulation (E	C) No 273/2004 on drug precursors
None of the in	gredients is listed.
· Regulation (I third countrie	EC) No 111/2005 laying down rules for the monitoring of trade between the Community are sin drug precursors
None of the in	gredients is listed



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· National regulations:

• Technical instructions (air):



· Waterhazard class: Water hazard class 1 (VwVwS 17.05.99): slightly hazardous for water.

• Other regulations, limitations and prohibitive regulations

It should be noted the fact sheet of BG Chemie M 044 "Polyurethane production and processing / isocyanates".

· 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

- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- 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.

· 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 Romania Spain

Netherlands

· Department issuing SDS: environment protection department

· Contact: Herr Ottensmann Tel. +49 (0)2056-25863-7

· Version number of previous version: 18

• Abbreviations and acronyms:

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)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 (Contd. of page 14)