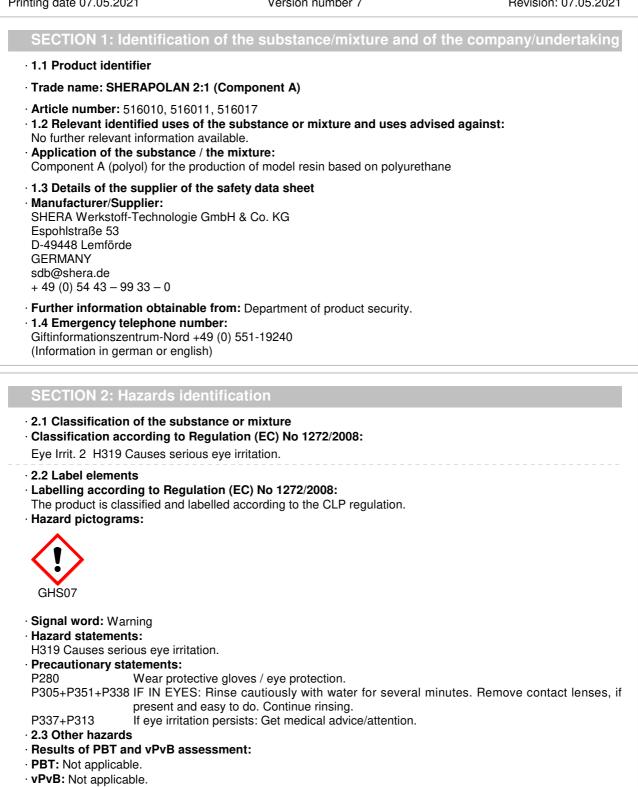


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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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

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CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO2) substance with a Community workplace exposure limit	25-<100%
CAS: 102-60-3 EINECS: 203-041-4 Reg.nr.: 01-2119552434-41	1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol Eye Irrit. 2, H319	10-25%
CAS: 6846-50-0 Reg.nr.: 01-2119451093-47	2,2,4-trimethyl-1,3-pentanediol diisobutyrate Aquatic Chronic 3, H412	≥10-<25%
CAS: 25322-69-4 Reg.nr.: 01-2119457556-29	Polypropylene glycol Acute Tox. 4, H302	5-15%
CAS: 7727-43-7 EINECS: 231-784-4	barium sulphate, natural substance with a Community workplace exposure limit	1-10%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

- No special measures required.
- · After skin contact: If skin irritation continues, consult a doctor.
- · After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- \cdot 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:

CO_□, powder or water spray. Fight larger fire with alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

- \cdot 5.2 Special hazards arising from the substance or mixture
- In case of fire, the following can be released:

Carbon monoxide (CO).

- Carbon dioxide (CO□).
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

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

· 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). 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.

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Trade name: SHERAPOLAN 2:1 (Component A)

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation / exhaustion at the workplace.

- Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles:
- Keep container in a well-ventilated and dry place.
- Keep container tightly closed.

Storage temperature: 20 up to 25°C.

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Store in dry conditions.
- Protect from frost.
- Keep container tightly sealed.
- \cdot Storage class: No information available.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control param	eters		
· Ingredients with li	imit values that require monitoring	at the workplace:	
14808-60-7 Quartz	z (SiO2)		
MAK (Germany)	Alveolar fraction		
BOELV (EU)	Long-term value: 0.1* mg/m ³ *respirable fraction		
7727-43-7 barium	sulphate, natural		
WEL (Great Britain	 Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust 		
AGW (Germany)	Long-term value: 1.25* 10** mg/m ³ 2(II);*alveolar**respirable; AGS, DF	G	
DNELs:			
102-60-3 1,1',1",1"	"-ethylenedinitrilotetrapropan-2-ol		
Dermal DNEL W	Vorker - Long Term - Systemic effects	4.2 mg/kg (workers)	
Inhalative DNEL W	Vorker - Long Term - Systemic effects	29.4 mg/m (workers)	
PNECs: No data an Additional information	vailable. ation: The lists valid during the makin	g were used as basis.	
Individual protect	trols neering controls No further data; see ion measures, such as personal pro e and hygienic measures:		
	onary measures are to be adhered to	when handling chemicals.	
	odstuffs, beverages and feed.		
	e all soiled and contaminated clothing	I.	
	e breaks and at the end of work.		
Avoid contact with			
Avoid contact with	ine eyes and skin.		(Contd. on page
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· •

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· Respiratory protection:

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.

Hand protection

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The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. 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 through 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.

9.1 Information on basic physical and chemical p	properties	
General Information		
Physical state	Fluid	
Colour:	Whitish	
Odour:	characteristic	
Melting point/freezing point:	Undetermined.	
Boiling point or initial boiling point and boiling		
range	Undetermined.	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	>100 °C	
Auto-ignition temperature:	Product is not selfigniting.	
Decomposition temperature:	Not determined.	
рН	Not determined.	
Viscosity:	Not determined.	
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure:	Not determined.	
Density and/or relative density		
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not determined.	



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Trade name: SHERAPOLAN 2:1 (Component A)

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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:	290 °C
· Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
· VOC (EC):	5,60 %
· Solids content:	0.0 %
· Change in condition:	
· Evaporation rate	Not determined.
· Information with regard to physical hazard cla	asses
· 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

- · 10.1 Reactivity No data available.
- · 10.2 Chemical stability No decomposition if used according to specifications.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials Water, alcohols, amines, bases and acids.
- · 10.6 Hazardous decomposition products No dangerous decomposition products known.

SECTION 11: Toxicological information

- \cdot 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

102-60-3 1,1',1",1"'-ethylenedinitrilotetrapropan-2-ol

Oral LD50 >2,000 mg/kg (Rat) (OECD 401)

LC50 2,050 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rat) (OECD 402)

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Trade name: SHERAPOLAN 2:1 (Component A)

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25322-69-4 Polypropylene glycol Oral LD50 2,000 mg/kg (Rat) LC50 1,000-<2,000 mg/kg (Rat)</td> Dermal LD50 >10,000 mg/kg (rab) >10,000 mg/kg (Rabbit) >10,000 mg/kg (Rabbit)

· Skin corrosion/irritation Slightly irritating (OECD method 404), does not require labeling.

- · Serious eye damage/irritation Causes serious eye irritation.
- \cdot 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

 Aquatic to 	xicity:
102-60-3 1	,1',1"',1"'-ethylenedinitrilotetrapropan-2-ol
EC50/48 h	>100 mg/l (Daphnia (Daphnia magna))
IC50/72 h	150.67 mg/l (Algae)
LC50/96 h	>2,000 mg/l (Fish)
25322-69-4	4 Polypropylene glycol
EC50/48 h	>100 mg/l (Daphnia (Daphnia magna))
• Other info • 12.3 Bioac • 12.4 Mobil	
	crine disrupting properties
•	ct does not contain substances with endocrine disrupting properties.
	adverse effects
	l 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:

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· Waste disposal key:

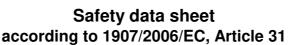
The waste disposal code as prescribed in the EuropeanWaste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

· Uncleaned packaging:

 \cdot **Recommendation:** Disposal must be made according to official regulations.

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Trade name: SHERAPOLAN 2:1 (Component A)

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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: Marine pollutant: 	No.
· 14.6 Special precautions for user	Not applicable.
 14.7 Maritime transport in bulk according tinstruments 	to IMO Not applicable.
· UN "Model Regulation":	Void.

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

Relevant phrases

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.
- · Department issuing SDS: Department of product security.
- Abbreviations and acronyms: ICAO: International Civil Aviation Organisation
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International
- ADR: Accord relatif au transport internati 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



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Trade name: SHERAPOLAN 2:1 (Component A)

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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 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 · * Data compared to the previous version altered.



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SECTION 1: I	dentification of the substance/mixture and of the compare	ny/undertaking
1.1 Product iden	tifier	
· Trade name: SH	ERAPOLAN 2:1 (Component B)	
 1.2 Relevant ide No further relevant Application of the 	516010, 516011, 516017 ntified uses of the substance or mixture and uses advised against: In information available. In substance / the mixture: Indener) for the production of model resin based on polyurethane	
 Manufacturer/Su 	f-Technologie GmbH & Co. KG le	
 1.4 Emergency t 	tion obtainable from: Department of product security. elephone number: entrum-Nord +49 (0) 551-19240 erman or english)	
SECTION 2: F	lazards identification	
	n of the substance or mixture cording to Regulation (EC) No 1272/2008: H315 Causes skin irritation. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if i H317 May cause an allergic skin reaction. H351 Suspected of causing cancer.	nhaled.
STOT SE 3 STOT RE 2	H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated expo H410 Very toxic to aquatic life with long lasting effects.	osure.
-	ing to Regulation (EC) No 1272/2008: assified and labelled according to the CLP regulation. ms:	
· Signal word: Da	nger	
 Hazard-determir 4,4' methylene dij tributyl phosphate Hazard statemer H315 Causes ski H319 Causes ser H334 May cause H317 May cause H351 Suspected H335 May cause 	ning components of labelling: ohenyl diisocyanate oligomers ohts:	(Contd. on page 2)
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H410 Very toxi	c 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.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents / container in accordance with local / regional / national / international regulations.
 Additional infe 	ormation:
Contains isocy	anates. May produce an allergic reaction.
2.3 Other haza	ards
· Results of PB	T and vPvB assessment:
· PBT: Not appli	cable.

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	4,4' methylene diphenyl diisocyanate oligomers	50-75%
Reg.nr.: 01-2119457013-49	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	
CAS: 38640-62-9 Reg.nr.: 01-2119565150-48	Alkylated aromatic hydrocarbons Asp. Tox. 1, H304; Aquatic Chronic 1, H410	25-50%
CAS: 126-73-8 EINECS: 204-800-2 Index number: 015-014-00-2 Reg.nr.: 01-2119492859-14	tributyl phosphate Carc. 2, H351; Acute Tox. 4, H302; Skin Irrit. 2, H315	0.25-1%

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

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

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:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: If symptoms persist consult doctor.

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- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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:
- CO , powder or water spray. Fight larger fire with alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture In case of fire, the following can be released: Nitrogen oxides (NOx).
 Carbon monoxide (CO).
 Hydrogen cyanide (HCN).
 Isocyanate vapours.
- 5.3 Advice for firefighters
 Protective equipment: Do not inhale explosion gases or combustion gases. Wear fully protective suit. Wear self-contained respiratory protective device.
 Additional information
- Cool endangered receptacles with water spray. 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 skin and eyes. Keep people at a distance and stay on the windward side.
6.2 Environmental precautions Inform respective authorities in case of seepage into water course or sewage system. 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 item 13

- Dispose contaminated material as waste according to item 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

Avoid contact with skin, eye and clothing. Do not breathe vapours.

Ensure good ventilation / exhaustion at the workplace.

Prevent formation of aerosols.

 \cdot Information about fire - and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

• Requirements to be met by storerooms and receptacles:

Keep container in a well-ventilated and dry place.

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Keep container tightly closed.

Storage temperature: 20 up to 25°C. Information about storage in one common storage facility:

Store away from water.

Store away from foodstuffs.

- Further information about storage conditions:
- Protect from humidity and water. Protect from frost.

Keep container tightly sealed.

· Storage class: No information available.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Contro	ol parame	ters			
 Ingredients with limit values that require monitoring at the workplace: 					
25686-28-	6 4,4' met	hylene diphenyl diisocyanate oligo	omers		
MAK (Gerr	many)	Short-term value: 0.05 mg/m ³ Long-term value: 0.05 mg/m ³			
126-73-8 t	ributyl ph	osphate			
WEL (Grea	at Britain)	Short-term value: 5 mg/m ³ Long-term value: 5 mg/m ³			
AGW (Ger	rmany)	Long-term value: 11 mg/m³, 1 ppm 2 (II);DFG, Y, H, 11			
· DNELs:					
25686-28-6 4,4' methylene diphenyl diisocyanate oligomers					
Dermal	DNEL W	orker - Long Term - Systemic effects	4.3 mg/kg (workers)		
Inhalative	DNEL W	orker - Long Term - Systemic effects	30 mg/m (workers)		
126-73-8 tributyl phosphate					
Dermal	DNEL W	orker - Long Term - Systemic effects	0.44 mg/kg (workers)		
Inhalative	DNEL W	orker - Long Term - Systemic effects	3.13 mg/m (workers)		
· Additiona	l informat	tion: The lists valid during the making	g were used as basis.		
••••	ite engine	ols ering controls No further data; see			

· Individual protection measures, such as personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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:

Filter P2.

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.

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

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· Material of gloves:

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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 through 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	roperties
· General Information	
Physical state	Fluid
· Colour:	Orange
· Odour:	characteristic
· Melting point/freezing point:	41 °C
· Boiling point or initial boiling point and boiling	
range	300 °C
·Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>150 °C
• Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
·pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	220 mPas
· Solubility	
· water:	Reacts with water under formation of CO , danger of
	bursting.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 25 °C:	0 hPa
· Density and/or relative density	
Density at 20 °C:	1.23 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health an	
environment, and on safety.	
· Ignition temperature:	400 °C
· Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	1.0 %
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		(Contd. of page
VOC (EC):	0,85 %	
Solids content:	0.0 %	
Change in condition:		
Evaporation rate	Not determined.	
Information with regard to physical hazard cl	asses	
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

- · 10.1 Reactivity No data available.
- · 10.2 Chemical stability No data available.
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No hazardous reactions known.
- 10.4 Conditions to avoid
- Heat, flames and sparks.
- Moisture.
- 10.5 Incompatible materials

Water, alcohols, amines, bases and acids. Oxidizing agents.

Acids.

· 10.6 Hazardous decomposition products

No dangerous productos of decomposition if the product is stored and used according to regulations.

SECTION 11: Toxicological information

· Acute toxicity: No data available.

· LD/LC50 values relevant for classification:

25686-28-6 4,4' methylene diphenyl diisocyanate oligomers				
Oral	LD50	>5,000 mg/kg (Rat) (OECD 425)		
	LC50	>5,000 mg/kg (Rat)		
Dermal	LD50	>9,400 mg/kg (Rat) (OECD 402)		
Inhalative	LC50/4 h	0.368 mg/l (Rat) (OECD 403)		
	LC50/1 h	>2.24 mg/l (Rat)		

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Oral	NOAEL	~170 mg/kg (Rat)	
	LD50	>4,000 mg/kg (Rat)	
Dermal	LD50	>4,000 mg/kg (Rat)	
Inhalative	LC50/4 h	>5.6 mg/l (Rat)	
126-73-8 tributyl phosphate			
Oral	LD50	1,552 mg/kg (Rat)	
•	e allergy or	sensitisation asthma symptoms or breathing difficulties if inhaled.	
May cause Carcinoge STOT-sin STOT-rep	enicity Sus gle expos eated exp	c skin reaction. spected of causing cancer. ure May cause respiratory irritation. osure May cause damage to organs through prolonged or repeated exposure. other hazards	

SECTION 12: Ecological information

12.1 Toxicity

25686-28-6 4,4' methylene diphenyl diisocyanate oligomers						
LC50/96 h	>1,000 mg/l (Fish)					
EC50/24 h	>1,000 mg/l (Daphnia (Daphnia magna))					
EC50/72 h						
	>1,000 mg/l (Daphnia)					
38640-62-9	Alkylated aromatic hydrocarbons					
EC0/48 h	0.16 mg/l (Daphnia)					
EC0/72 h	0.15 mg/l (Algae)					
LC0/96 h	0.5 mg/l (Fish)					
126-73-8 tributyl phosphate						
	1.3 mg/l (Daphnia (Daphnia magna))					
12.2 Persis 12.3 Bioacc	tence and degradability No further relevant information available. cumulative potential No further relevant information available.					
12.2 Persis 12.3 Bioacc 12.4 Mobilit 12.5 Result PBT: Not ap vPvB: Not a 12.6 Endoc The product 12.7 Other a Remark: Ve Additional of General no Water hazar Do not allow	tence and degradability No further relevant information available. cumulative potential No further relevant information available. ty in soil No further relevant information available. s of PBT and vPvB assessment oplicable. applicable. rine disrupting properties adverse effects ery toxic for fish ecological information:					

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Very toxic for aquatic organisms.

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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.

Waste disposal key:

The waste disposal code as prescribed in the EuropeanWaste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.

· Uncleaned packaging:

· Recommendation: Dispose unclean packages in compliance with the local, official regulations.

14.1 UN number or ID number	
ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE
IMDG	LIQUID, N.O.S. (Alkylated aromatic hydrocarbons) ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (Alkylated aromatic hydrocarbons
ΙΑΤΑ	MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE
	LIQUID, N.O.S. (Alkylated aromatic hydrocarbons)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
	III
ADR, IMDG, IATA 14.5 Environmental hazards:	
ADR, IMDG, IATA 14.5 Environmental hazards:	Yes.
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant:	Yes. Symbol (fish and tree)
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	Yes.
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA):	Yes. Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Hazard identification number (Kemler code):	Yes. Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances an articles. 90
14.4 Packing group ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number:	Yes. Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances an articles. 90 F-A,S-F
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category	Yes. Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances an articles. 90 F-A,S-F A
ADR, IMDG, IATA 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Hazard identification number (Kemler code): EMS Number:	Yes. Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances an articles. 90 F-A,S-F A



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Transport/Additional information:	
ADR	
Limited quantities (LQ):	5L
Excepted quantities (EQ):	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category:	3
Tunnel restriction code:	-
IMDG	
Limited quantities (LQ):	5L
Excepted quantities (EQ):	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOU
-	SUBSTANCE, LIQUID, N.O.S. (ALKYLATED AROMATI
	HYDROCARBONS), 9, III

SECTION 15: Regulatory information

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- \cdot Qualifying quantity (tonnes) for the application of lower-tier requirements $100\ t$
- \cdot Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

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.

· Department issuing SDS: Department of product security.

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(Contd. of page 9) 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) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) 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) 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 * Data compared to the previous version altered.