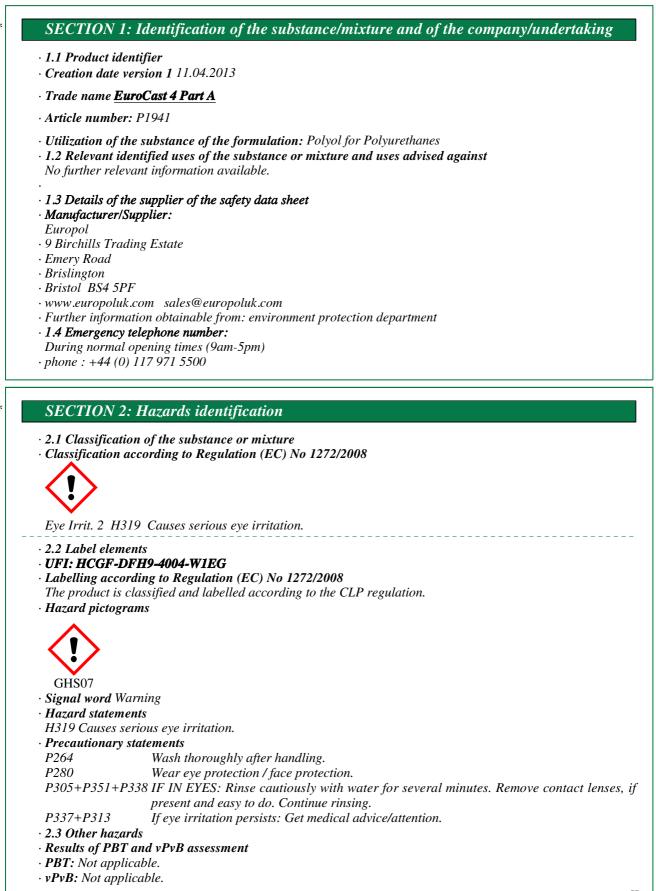
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≥10-<50%

	SECTION 3: Composition/	information on ingredients
	• 3.2 Chemical characterisation: N	fixtures es listed below with nonhazardous additions.
1	• Description: Mixture of substance	s listed below with nonnuzuraous dualitons.
	<u> </u>	
	CAS: 25214-63-5 NLP: 500-035-6	Alkylaminopolyoxyalkylenol
		♦ Eye Irrit. 2, H319
	Reg.nr.: 01-2119471485-32-xxxx	

	Polypropylenglykol	10-25%
Reg.nr.: 01-2119457556-29-xxxx		
CAS: 28553-12-0	di-"isononyl" phthalate	10-25%
EINECS: 249-079-5	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119430798-28-xxxx		

• 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: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- 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.

- 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:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO) carbon dioxide
- 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures cover accouterment bear, exposed person remove Wear protective clothing.

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

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· 6.2 Environmental precautions:

· 6.4 Reference to other sections

Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up:

See Section 7 for information on safe handling. See Section 13 for disposal information.

See Section 8 for information on personal protection equipment.

SECTIO	ON 7: Handling and storage
Store in c	a utions for safe handling ool, dry place in tightly closed receptacles. Ty from heat and direct sunlight.
Take care Ensure go	by opening bod ventilation/exhaustion at the workplace.
· Informat	ormation of aerosols. ion about fire - and explosion protection:
	ition sources away - Do not smoke. gainst electrostatic charges.
· 7.2 Condi · Storage:	itions for safe storage, including any incompatibilities
	tents to be met by storerooms and receptacles: tainer tightly closed and dry and storage in a good ventilated room.
	emperature: 20 - 25 °C. ion about storage in one common storage facility:
Store awa	ty from flammable substances. Ty from oxidising agents.
Do not ste	ore together with reducing agents, heavy-metal compounds, acids and alkalis. Ty from foodstuffs.
	nformation about storage conditions:
Store in d	lry conditions. om humidity and water.
Keep con • Storage c	tainer tightly sealed. lass: 10
	mination of Origin Made in Germany g information Homogenize content before use
	emark For processing instructions see data sheet
SECTIO	ON 8: Exposure controls/personal protection
	ol parameters al information about design of technical facilities: No further data; see item 7.
	its with limit values that require monitoring at the workplace:
	-0 di-''isononyl'' phthalate
	eat Britain) Long-term value: 5 mg/m ³
· DNELs	
	-5 Alkylaminopolyoxyalkylenol
	DNEL systemic effects - long term exposure 8.3 mg/kg bw/d (General population)
Oral Dermal	DNEL systemic effects - long term exposure 8.3 mg/kg bw/d (General population)



degradation

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Trade name EuroCast 4 Part A

Inhalative	DNEL systemic e	ffects - long term exposure	(Contd. of page 3 29 mg/m ³ (General population)	
			98 mg/m ³ (workers)	
28553-12-	0 di-''isononyl'' p	hthalate		
Oral		n - systemic effects	4.4 mg/kg bw/day (General population)	
	DNEL Chronic -		4.4 mg/kg bw/d (workers)	
Dermal		<i>i - systemic effects</i>	220 mg/kg bw/day (General population)	
	0	2 00	366 mg/kg bw/day (workers)	
	DNEL chronic - s	systemic effects	220 mg/kg bw/d (General population)	
			366 mg/kg bw/d (workers)	
Inhalative	DNEL Long-term	ı - systemic effects	15.3 mg/m ³ (General population)	
	DNEL systemic effects - short term		$51.72 \text{ mg/m}^3 \text{ (workers)}$	
	DNEL chronic -		15.3 mg/m ³ (General population)	
		5 55	$51.72 \text{ mg/m}^3 \text{ (workers)}$	
PNECs				
	5 Alkylaminopoly	oxvalkvlenol		
PNEC		0.193 mg/kg (freshwater-	sediment)	
11120		0.0193 mg/kg (seawater -		
		0.0183 mg/kg (soil (Boder		
PNEC		0.085 mg/l (freshwater)		
11120		0.0085 mg/l (marine water	r)	
	1.51 mg/l (intermittent rele			
28553-12-	0 di-''isononyl'' p		·····,	
PNEC soil		30 mg/kg (soil (Boden))		
PNEC Seco	ondary poisoning	150 mg/kg (food)		
Additional	information: The	e lists valid during the maki	ing were used as basis.	
8.2 Exposi	ire controls			
	rotective equipme	ent:		
	otective and hygi			
		beverages and feed. ed and contaminated clothin	na	
		nd at the end of work.	18	
	act with the eyes.	,		
	act with the eyes d	and skin.		
	y protection: filter device:			
	juier device.			
	In case of brief	exposure or low pollution	use respiratory filter device. In case of intensive of	
		use self-contained respirato		
95559				
	ary if room is wel	l-ventilated.		
Protection Preventive		<i>B-point program) required</i>		
	skin protection (S	poun program, required		
	Protective gloves			
	Froiective gloves			
			t to the product/ the substance/ the preparation.	
	sing tests no reco		t to the product/ the substance/ the preparation. naterial can be given for the product/ the preparation	

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Trade name EuroCast 4 Part A

· 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are suitable: Butyl rubber, BR Nitrile rubber, NBR

• Eye protection:



*

Tightly sealed goggles

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

General Information		
Appearance:		
Form:	Fluid	
Colour:	Whitish	
· Odour:	Characteristic	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
Melting point/freezing point:	Undetermined.	
Initial boiling point and boiling range	n: 175 ℃	
· Flash point:	95 °C	
· Flammability (solid, gas):	Not applicable.	
· Ignition temperature:	265 °C	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	0.95 g/cm ³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	

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Trade name EuroCast 4 Part A

		(Contd. of page 5
· Viscosity:		
Dynamic at 20 °C:	75 mPas	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC (EC)	0.3 g/l	
• 9.2 Other information	No further relevant information available.	

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 Reacts with acids, alkalis and oxidising agents.
- · 10.4 Conditions to avoid

Moisture. Heat, open flames and other ignition sources. With contaminated pipes and tanks or corroded or rusty containers may lead to increased formation of hydrogen. Detail in section 7.

- 10.5 Incompatible materials: 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 toxicological effects

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

25214-63-5 Alkylaminopolyoxyalkylenol

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

85586-25-0 Fettsäuremethylester

Oral LD50 >2,000 mg/kg (rat)

25322-69-4 Polypropylenglykol

Oral LD50 2,000 mg/kg (rat)

Dermal LD50 >10,000 mg/kg (rabbit)

28553-12-0 di-''isononyl'' phthalate

Oral LD50 >10,000 mg/kg (rat) (OECD 401 Acute Oral Toxicity)

Dermal | LD50 | >3,160 mg/kg (rabbit)

• Primary irritant effect:

· Skin corrosion/irritation irritation feasible

 \cdot Serious eye damage/irritation

Causes serious eye irritation.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

• Additional toxicological information:

- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.

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

· STOT-single exposure Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

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

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Trade name EuroCast 4 Part A

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A quatia tori	
Aquatic toxic	uy: Alkylaminopolyoxyalkylenol
	4,600 mg/l (Leuciscus)
	150.67 mg/l (Desmodesmus subspicatus)
ECO (48h)	>100 mg/l (Daphnia Magna)
()	Polypropylenglykol
	>100 mg/l (Oncorhynchus mykiss)
	>100 mg/l (Daphnia Magna)
ErC50 (72h)	>100 mg/l (Scenedesmus subspicatus)
28553-12-0 d	li-''isononyl'' phthalate
LC0(96h)	>100 mg/l (Brachydanio rerio)
	>100 mg/l (Brachydanio rerio)
EC50 (48 h)	>74 mg/l (D)
	>74 mg/l (Daphnia Magna)
	>83.9 mg/l (activated sludge)
	88 mg/l (Scenedesmus subspicatus)
	≥100 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test)
	>88 mg/l (Scenedesmus subspicatus)
Other inform 12.3 Bioaccu 12.4 Mobility Additional ec General note	
	l class 2 (German Regulation) (Self-assessment): hazardous for water
	product to reach ground water, water course or sewage system. inking water if even small quantities leak into the ground.
12.5 Results	of PBT and vPvB assessment
PBT: Not app	
vPvB: Not ap 12.6 Other a	pucable. Iverse effects No further relevant information available.
SECTION	13: Disposal considerations
	eatment methods

- · Uncleaned packaging:
- · Recommendation:

The empty containers may not be disposed of unless the adhesive to the container walls Been removed. Disposal according to official regulations

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14.1 UN-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 Transport in bulk according to Ann	ex II of	
Marpol and the IBC Code	Not applicable.	

SECTION 15: Regulatory information

- \cdot 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 Warning
- · Hazard statements
- H319 Causes serious eye irritation.
- · Precautionary statements
- P264Wash thoroughly after handling.P280Wear eve protection / face protection
- P280Wear eye protection / face protection.P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
- P337+P313
- present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): 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.

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H319 Causes serious eye irritation.

· 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.

Unless expressly described in chapter 1.2, Altropol products are for industrial use only. They are not intended for use in certain medical applications that are implanted, injected or taken directly (usually 30 days or more) into the human body, and are not intended for the manufacture of multiple-use contraceptives.

· Department issuing SDS: environment protection department

• Contact: Clayton Whitta Ph. +44 (0) 117 971 5500

· 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 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 \cdot * Data compared to the previous version altered.



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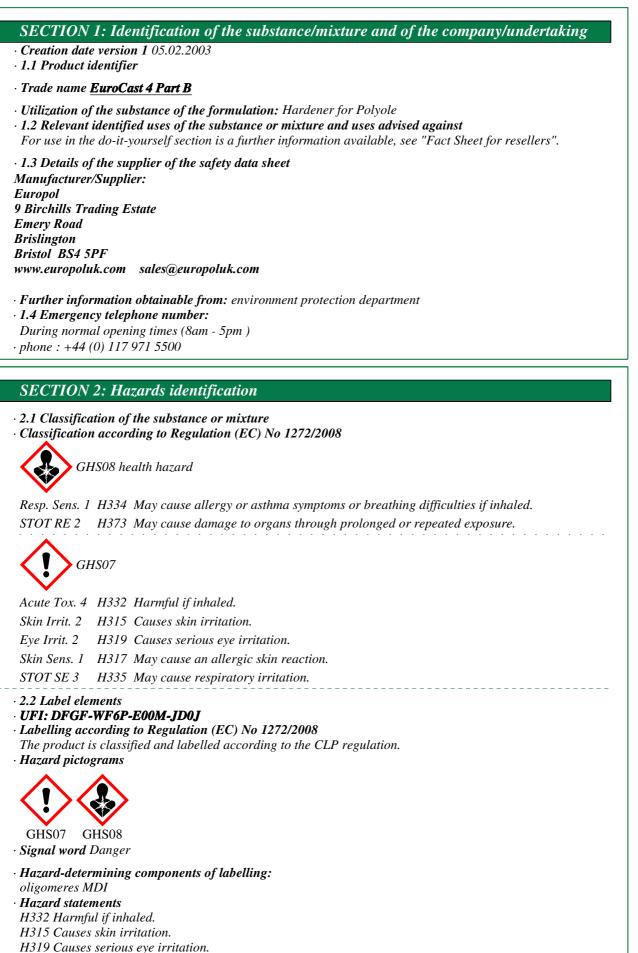
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	e allergy or asthma symptoms or breathing difficulties if inhaled.
	e an allergic skin reaction.
H335 May cause	e respiratory irritation.
H373 May cause	e damage to organs through prolonged or repeated exposure.
· Precautionary s	tatements
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves / eye protection / face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other hazar	ds
Persons with hyp	persensitivity of the airways (eg asthma, chronic bronchitis) may, with
	roduct. Symptoms in the respiratory tract can also still some hours
	exposure. Dust, vapors and aerosols are the primary threat to the
Respiratory trac	
· ·	es not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or
formaldehydes.	
	and vPvB assessment
• PBT: Not applic	
• vPvB: Not appli	

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture: consisting of the following components.

· Dangerous components:			
	CAS: 32055-14-4 NLP: 500-079-6	oligomeres MDI � Resp. Sens. 1, H334; STOT RE 2, H373; 아 Acute Tox. 4,	50-75%
		H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
	CAS: 108-32-7 EINECS: 203-572-1	propylene carbonate ()> Eye Irrit. 2, H319	10-25%
	Reg.nr.: 01-2119537232-48-xxxx		

• 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:

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

Immediately remove any clothing soiled by the product.

• 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:

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.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

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- · After eye contact:
- *Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing:*

Do not induce vomiting; call for medical help immediately.

- If symptoms persist consult doctor.
- 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.

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.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear fully protective suit.

- Wear self-contained respiratory protective device.
- Additional information

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 Protective equipment (see section 8). adequate

Provide ventilation. Keep unnecessary people away. Wear protective clothing.

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

At workplaces, or plant parts on which isocyanate aerosols and / or vapors in higher concentrations can occur (eg, pressure relief, mold venting, Cleaning mixing heads with compressed air) must be replaced by air suction exceeding the (Contd. of page 2)



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(Contd. of page 3) occupational exposure limits to be prevented. The air should be of the people carried away. The effectiveness of the equipment must be checked periodically. Noted in Chapter 8 exposure limits to be monitored. The personal protective measures described in Chapter 8 are observed. contact avoid with skin and eyes and inhalation of vapors necessarily. Keep away from foodstuffs, drinks and tobacco. Before breaks and at end of work Wash and apply skin cream. Store work clothes separately. contaminated, Take off immediately all contaminated clothing. provide for best ventilation in the work space Prevent formation of aerosols. Take care by opening Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
 carried away. The effectiveness of the equipment must be checked periodically. Noted in Chapter 8 exposure limits to be monitored. The personal protective measures described in Chapter 8 are observed. contact avoid with skin and eyes and inhalation of vapors necessarily. Keep away from foodstuffs, drinks and tobacco. Before breaks and at end of work Wash and apply skin cream. Store work clothes separately. contaminated, Take off immediately all contaminated clothing. provide for best ventilation in the work space Prevent formation of aerosols. Take care by opening
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 The personal protective measures described in Chapter 8 are observed. contact avoid with skin and eyes and inhalation of vapors necessarily. Keep away from foodstuffs, drinks and tobacco. Before breaks and at end of work Wash and apply skin cream. Store work clothes separately. contaminated, Take off immediately all contaminated clothing. provide for best ventilation in the work space Prevent formation of aerosols. Take care by opening
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Take off immediately all contaminated clothing.provide for best ventilation in the work spacePrevent formation of aerosols.Take care by opening
provide for best ventilation in the work space Prevent formation of aerosols. Take care by opening
Prevent formation of aerosols. Take care by opening
Prevent formation of aerosols. Take care by opening
Take care by opening
· Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.
· 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 water.
Store away from foodstuffs.
• Further information about storage conditions: Keep container tightly sealed.
• Storage class: 10
• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

*

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Oral	DNEL systemic effects - short term	20 mg/kg bw/day (General population)
Dermal	DNEL Acute systemic effects - short term	50 mg/kg bw/day (workers)
	DNEL Acute local effects - short term	28.7 mg/cm ² (workers)
	DNEL systemic effects - short term	25 mg/kg bw/day (General population)
	DNEL local effects - short term	17.2 mg/cm ² (General population)
Inhalative	DNEL Acute systemic effects - short term	0.1 mg/m ³ (workers)
	DNEL Acute systemic effects - long term	0.05 mg/m ³ (workers)
	DNEL Acute local effects - short term	0.1 mg/m ³ (workers)
	DNEL local effects - long term exposure	0.025 mg/m^3 (General population)
		0.05 mg/m ³ (workers)
	DNEL Long-term - systemic effects	0.025 mg/m^3 (General population)
	DNEL local effect - short term	0.05 mg/m ³ (General population)
	DNEL systemic effects - short term	0.05 mg/m ³ (General population)
PNECs		

(Contd. on page 5) GB



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Trade name EuroCast 4 Part B

Unless the exposure levels below the established exposure limits remain is no respiratory protection required. Where exposures exceed the established exposure limits, respiratory protection to the material at the degree of exposure is recommended accordingly. A respiratory protection unit offers the same eye and face protection. The cutting, grinding or sanding of parts after curing can result in respirable dust. Wearing appropriate f this dust respirators may be necessary. In inadequately ventilated places and during spraying respirator necessary. Recommended to be fresh-air mask or filter combination for short-term work A2-P2 Protection of hands: <i>Protective gloves</i> 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. 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 qualiand varies from manufacturer to manufacturer. As the product is a preparation of several substances, to respiration. 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> = 0.5 mm, breakthrough time> = 480 min. Fluorine rubber - IR: thickness> = 0.4 mm; breakthrough time> = 480 min. Fluorine rubber - FKM: thickness> = 0.4 mm; breakthrough time> = 480 min. Fluorine rubber - FKM: thickness> = 0.4 mm; breakthrough time> = 480 min. Fluorine rubber - FKM: thickness> = 0.4 mm; breakthrough time> = 480 min. Fluorine rubber - FKM: thickness> = 0.4 mm; breakthrough time> = 480 min. Fluorine rubber - FKM: thickness> = 0.4 mm; brea	 >0.1 mg/l (marine water) >1 mg/l (sewage plant) dditional information: The lists valid during the making were used as basis. 2 Exposure controls erronal protective equipment: eneral protective equipment: eneral protective and hygienic measures: eep away from foodstuffs, beverages and feed. mmediately remove all soiled and contaminated clothing yeash hands before breaks and at the end of work. void contact with the eyes and skin. espiratory protection: inless the exposure levels below the established exposure limits remain is no respiratory protectior guired. Where exposure levels below the established exposure limits, respiratory protection to the material of the degree of exposure is recommended accordingly. A respiratory protection unit offers the same eye and face protection. The cutting, grinding or sanding of parts after curing can result in respirable dust. Wearing appropriate, is dust respirators may be necessary. i inadequately ventilated places and during spraying respirator eccessary. Recommended to be fresh-air mask or filter combination for short-term work 12-P2 rotective gloves he glove material has to be impermeable and resistant to the product/ the substance/ the preparation. the to missing tests no recommendation to the glove material can be given for the product/ the preparation te chemical mixture. election of the suitable gloves does not only depend on the material, but also on further marks of qua dvaries from manufacturer to manufacturer. As the product is a preparation of several substances, sistance of the glove material an to be calculated in advance and has therefore to be checked prior to plication.
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· Body protection: Protective work clothing

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Safety data sheet according to 1907/2006/EC, Article 31

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		SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and chemical properties				
General Information Appearance:				
Form:	Fluid			
Colour:	Light brown			
Odour:	Characteristic			
Odour threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition				
Melting point/freezing point:	41 °C			
Initial boiling point and boiling ran	ge: > 300 °C (bei 1013 hPa)			
Flash point:	> 200 °C			
Flammability (solid, gas):	Not applicable.			
Ignition temperature:	400 °C			
Decomposition temperature:	Not determined.			
Auto-ignition temperature:	Product is not selfigniting.			
Explosive properties:	Product does not present an explosion hazard.			
· Explosion limits:				
Lower:	Not determined.			
Upper:	Not determined.			
Vapour pressure at 25 °C:	0,0002 hPa			
Density at 20 °C:	$1,2 \ g/cm^3$			
Relative density	Not determined.			
Vapour density	Not determined.			
• Evaporation rate Not determined. • Solubility in / Miscibility with				
water:	Insoluble.			
Partition coefficient: n-octanol/water:	: Not determined.			
Viscosity:				
Dynamic at 20 °C:	100 mPas			
Kinematic:	Not determined.			
Solvent content:				
Organic solvents:	0,0 %			
VOC (EC)	0.0 g/l			
9.2 Other information	No further relevant information available.			

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- Thermal decomposition / conditions to be avoided: > 200 °C polymerisation, CO 2 separation.
- · 10.3 Possibility of hazardous reactions

- 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: water , alcohol , amine , base and acid

(Contd. on page 7)

^{· 10.2} Chemical stability

Exothermic reaction with amines and alcohols; reacts with water forming C02, in closed containers risk of bursting owing to increase of pressure.

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• 10.6 Hazardous decomposition products: At the air > 300 °C: acrolein

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SECTION 11: Toxicological information

- \cdot 11.1 Information on toxicological effects
- Acute toxicity
- Harmful if inhaled. • LD/LC50 values relevant for classification:
- Test atmosphere: dust / mist
- Method: OECD Test Guideline 403

Toxicological studies of a comparable product. The fabric was in a

- Form (ie, special particle size distribution) tested which differ from the forms, as marketed and used in all probability, is different. Therefore, a
- modified classification of acute inhalation toxicity justified.

32055-14-4 oligon	neres MDI
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	-	
Oral	LD50	10,000 mg/kg (Ratte)
Dermal	LD50	9,400 mg/kg (Kaninchen)
Inhalative	LC50/4 h	0.31 mg/l (Ratte)

- Primary irritant effect:
- · 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.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *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 organs through prolonged or repeated exposure.
- · Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

1211 100000			
· Aquatic toxicity:			
32055-14-4 oligomeres MDI			
LC50 (96 h)	>1,000 mg/l (Danio Rerio) (OECD- Prüfrichtlinie 203)		
EC50 (24h)	>1,000 mg/l (Daphnia Magna) (OECD Prüfrichtlinie 202)		
EC50(3h)	>100 mg/l (activated sludge) (OECD Prüfrichtlinie 209)		
• 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.			
Additional ecological information:			
· General notes:			
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water			
Do not allow	Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage		

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

· 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	4: Transport in	formation
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· 14.1 UN-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	No dangerous cargo. Avoid temperatures below 0 ° C. Heat above +50 ° C. Protect from moisture. Keep away from food, stimulants, acids and alkalis
14.7 Transport in bulk according to Annex II ofMarpol and the IBC CodeNot 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 pictograms



· Signal word Danger

· Hazard-determining components of labelling: oligomeres MDI · 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. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. · Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 *Wear protective gloves / eye protection / face protection.* P284 [In case of inadequate ventilation] wear respiratory protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. 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.

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

· National regulations:

• Waterhazard class: Water hazard class 1 (VwVwS 17.05.99): slightly 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

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.
H373 May cause damage to organs through prolonged or repeated exposure.

· Department issuing SDS: environment protection department

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

• 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 européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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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	
<i>Eye Irrit. 2: Serious eye damage/eye irritation – Category 2</i>	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
• * Data compared to the previous version altered.	
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