

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name** NEUKADUR PN 1695 Comp.A
- **Utilization of the substance of the formulation:** Polyol for Polyurethanes
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU12 Manufacture of plastics products, including compounding and conversion
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
ALTRROPOL KUNSTSTOFF GmbH
Daimlerstraße 9
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
- **Emergency telephone number:**
During normal opening times (7 am - 5 pm)
phone : +49 (0)451-49960-0 or +49 (0)176-10232577

2 Hazards identification

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

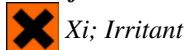


GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2 H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36: Irritating to eyes.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**

Xi Irritant

- **Risk phrases:**

36 Irritating to eyes.

- **Safety phrases:**

23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

(Contd. on page 2)

Printing date 28.04.2011

Version number 9

Revision: 28.03.2011

Trade name NEUKADUR PN 1695 Comp.A

(Contd. of page 1)

- 60 This material and its container must be disposed of as hazardous waste.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

- Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 102-60-3 EINECS: 203-041-4	1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol ☒ Xi R36 ⚠ Eye Irrit. 2, H319	25-50%
CAS: 25322-69-4	Polypropylenglykol ☒ Xn R22 ⚠ Acute Tox. 4, H302	10-25%
CAS: 28553-12-0 EINECS: 249-079-5	di-"isononyl" phthalate	10-25%
CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light ☒ Xn R65 R66 ⚠ Asp. Tox. 1, H304	5.0-10.0%
CAS: 64742-82-1	Naphta (Erdöl), hydrodesulfurierte schwere; Naphta, niedrig siedend. ☒ Xn R65; ☒ Xi R38; ☒ N R51/53 R10-66-67 ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	< 0.5%

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- 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.

5 Firefighting measures

- 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
- Special hazards arising from the substance or mixture
Carbon monoxide (CO)

(Contd. on page 3)

GB

Printing date 28.04.2011

Version number 9

Revision: 28.03.2011

Trade name NEUKADUR PN 1695 Comp.A

(Contd. of page 2)

- carbon dioxide
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Take care by opening
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **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: 15 - 25 °C.
- **Information about storage in one common storage facility:**
Store away from flammable substances.
Store away from oxidizing agents.
Store away from foodstuffs.
- **Further information about storage conditions:**
Protect from frost.
Store in dry conditions.
Protect from humidity and water.
Keep container tightly sealed.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

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

28553-12-0 di-"isononyl" phthalate

WEL (Great Britain) Long-term value: 5 mg/m³

(Contd. on page 4)

Trade name NEUKADUR PN 1695 Comp.A

(Contd. of page 3)

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

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

Short term filter device:



In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

· **Protection of hands:**

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 through 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:** Nitrile rubber, NBR

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Whitish

· **Odour:** Characteristic

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 172°C

· **Flash point:** > 76°C

· **Ignition temperature:** 265°C

(Contd. on page 5)

Printing date 28.04.2011

Version number 9

Revision: 28.03.2011

Trade name NEUKADUR PN 1695 Comp.A

(Contd. of page 4)

· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Test
· Explosion limits:	
Lower:	0.6 Vol %
Upper:	6.5 Vol %
· Vapour pressure at 20°C:	6.6 hPa
· Density at 20°C:	1 g/cm ³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic at 25°C:	75 mPas
VOC (EC)	10.60 %

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** Reacts with acids, alkalis and oxidizing agents.
- **Incompatible materials:** Avoid contact with strong oxidizing agents.
- **Hazardous decomposition products:**
Flammable gases/vapours
Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· LD/LC50 values relevant for classification:		
102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol		
Oral	LD50	> 2000 mg/kg (Ratte)
Aliphatische Fettsäure		
Oral	LD50	> 200 mg/kg (Ratte)
25322-69-4 Polypropylenglykol		
Oral	LD50	1000 - < 2000 mg/kg (Ratte)
Dermal	LD50	> 2000 mg/kg (Kaninchen)

- **Primary irritant effect:**
- **on the skin:** no datas available
- **on the eye:**
no datas available
Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

(Contd. on page 6)

GB

Printing date 28.04.2011

Version number 9

Revision: 28.03.2011

Trade name NEUKADUR PN 1695 Comp.A

Irritant

(Contd. of page 5)

12 Ecological information· **Toxicity**· **Acquatic toxicity:****102-60-3 1,1',1'',1'''-ethylenedinitrilotetrapropan-2-ol**

EC50 (48 h) >100 mg/l (Daphnia Magna)

EC50 (72 h) 150.67 mg/l (A)

LC50 (96 h) >2000 mg/l (F)

Aliphatische Fettsäure

EC50 (48 h) > 100 mg/l (B)

LC50 (96 h) > 100 mg/l (F)

25322-69-4 Polypropylenglykol

EC50 (48 h) >100 mg/l (Daphnia Magna)

· **Additional ecological information:**· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.**13 Disposal considerations**· **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.

· **Uncleaned packaging:**· **Recommendation:** Disposal must be made according to official regulations.**14 Transport information**· **Land transport ADR/RID (cross-border)**· **ADR/RID class:** -· **Maritime transport IMDG:**· **IMDG Class:** -· **Marine pollutant:** No· **Air transport ICAO-TI and IATA-DGR:**· **ICAO/IATA Class:** -· **UN "Model Regulation":** -· **Special precautions for user** Not applicable.

GB

(Contd. on page 7)

Trade name NEUKADUR PN 1695 Comp.A

(Contd. of page 6)

15 Regulatory information

- *Safety, health and environmental regulations/legislation specific for the substance or mixture*
- *National regulations:*
- *Technical instructions (air):*

Class	Share in %
NK	< 0,5

- *Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.*
- *Chemical safety assessment: A Chemical Safety Assessment has not been carried out.*

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**
 - H226 *Flammable liquid and vapour.*
 - H302 *Harmful if swallowed.*
 - H304 *May be fatal if swallowed and enters airways.*
 - H315 *Causes skin irritation.*
 - H319 *Causes serious eye irritation.*
 - H336 *May cause drowsiness or dizziness.*
 - H411 *Toxic to aquatic life with long lasting effects.*
- **R10** *Flammable.*
- **R22** *Harmful if swallowed.*
- **R36** *Irritating to eyes.*
- **R38** *Irritating to skin.*
- **R51/53** *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- **R65** *Harmful: may cause lung damage if swallowed.*
- **R66** *Repeated exposure may cause skin dryness or cracking.*
- **R67** *Vapours may cause drowsiness and dizziness.*
- **Department issuing MSDS:** *environment protection department*
- **Contact:**
 - Herr Karasmann Tel. +49 (0)451-49960-0*
 - Herr Grützmacher Tel. +49 (0)2056-25863-6*
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*
 - IMDG: International Maritime Code for Dangerous Goods*
 - IATA: International Air Transport Association*
 - IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)*
 - ICAO: International Civil Aviation Organization*
 - ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)*
 - GHS: Globally Harmonized System of Classification and Labelling of Chemicals*
 - VOC: Volatile Organic Compounds (USA, EU)*
 - LC50: Lethal concentration, 50 percent*
 - LD50: Lethal dose, 50 percent*
- *** Data compared to the previous version altered.**