



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

- **Product identifier**
- **Trade name** NEUKADUR Multicast 6
- **Utilization of the substance of the formulation:** Polyurethan for manufacturing Duromeres
- **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
Rudolf-Diesel-Str 9 - 13
D-23617 Stockelsdorf
Tel. +49 (0)451-49960-0
Fax. +49 (0)451-49960-20
e-mail: info@altropol.de
- **Further information obtainable from:** environment protection department
- **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 Directive 67/548/EEC or Directive 1999/45/EC**
 Xi; Irritant
R36: Irritating to eyes.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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 is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Code letter and hazard designation of product:**
 Xi Irritant
- **Risk phrases:**
36 Irritating to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Safety phrases:**
23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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- **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 | 25 - 50% |
| CAS: 25322-69-4 | Polypropylenglykol ☒ Xn R22 | 10 - 25% |
| CAS: 124-17-4 EINECS: 204-685-9 | 2-(2-butoxyethoxy)ethyl acetate substance with a Community workplace exposure limit | 10 - 25% |
| CAS: 38640-62-9 | Diisopropyl-naphthalene ☒ Xn R65; ☒ N R51/53 | 5 - 10% |
| CAS: 64742-47-8 EINECS: 265-149-8 | Distillates (petroleum), hydrotreated light ☒ Xn R65 R66 | 2.5-5.0% |
| CAS: 64742-82-1 | Naphtha (petroleum), hydrotreated heavy; naphtha, low boiling point.) ☒ Xn R65; ☒ N R51/53 R10 | 0.25-2.5% |

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

4 First aid measures

- **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:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
Seek immediate medical advice.
Rinse out mouth and then drink plenty of water.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)

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- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

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).
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** provide for best ventilation in the work space
- **Information about fire - and explosion protection:**
Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.
- **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 foodstuffs.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **Specific end use(s)** No further relevant information available.

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:**

124-17-4 2-(2-butoxyethoxy)ethyl acetate

| | |
|---------------|---|
| AGW (Germany) | Long-term value: 67 mg/m ³ , 10 ppm 1.5(I);DFG, Y, 11 |
|---------------|---|

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** 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**

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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 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: | Undetermined. |

- **Flash point:** > 100 °C

- **Ignition temperature:** 290 °C

- **Self-igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

| | |
|--------|-----------|
| Lower: | 0.4 Vol % |
| Upper: | 5.3 Vol % |

- **Vapour pressure at 20 °C:** 0.1 hPa

- **Density at 20 °C:** 1.02 g/cm³

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

- **Viscosity:**

Dynamic at 20 °C: 35 mPas

- **Solvent content:**

| | |
|-------------------|---------|
| Organic solvents: | 14.3 % |
| VOC (EC) | 18.81 % |

- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**

- **Chemical stability**

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

- **Possibility of hazardous reactions** No dangerous reactions known.

- **Conditions to avoid** No further relevant information available.

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- **Incompatible materials:** water , alcohol , amine , base and acid
- **Hazardous decomposition products:** 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 | 2050 mg/kg (Ratte) |
|------|------|--------------------|

25322-69-4 Polypropylenglykol

| | | |
|------|------|-----------------------------|
| Oral | LD50 | 1000 - < 2000 mg/kg (Ratte) |
|------|------|-----------------------------|

| | | |
|--------|------|--------------------------|
| Dermal | LD50 | >10000 mg/kg (Kaninchen) |
|--------|------|--------------------------|

38640-62-9 Diisopropyl-naphthalene

| | | |
|------|------|----------------------|
| Oral | LD50 | > 4000 mg/kg (Ratte) |
|------|------|----------------------|

| | | |
|--------|------|---------------------|
| Dermal | LD50 | >4000 mg/kg (Ratte) |
|--------|------|---------------------|

| | | |
|------------|----------|--------------------|
| Inhalative | LC50/4 h | > 5.6 mg/l (Ratte) |
|------------|----------|--------------------|

- **Primary irritant effect:**

- **on the skin:** no datas available

- **on the eye:** no datas available

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- **Toxicity**

- **Aquatic 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) |
|-------------|----------------|

25322-69-4 Polypropylenglykol

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

- **Persistence and degradability** No further relevant information available.

- **Behaviour in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **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 undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

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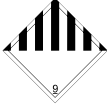

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13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Must be specially treated adhering to official regulations.
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
 - **ADR, ADN**
 - **IMDG, IATA**
- Void
UN3082
- **UN proper shipping name**
 - **ADR, ADN**
 - **IMDG**
 - **IATA**
- Void
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkylated aromatic hydrocarbon), MARINE POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (alkylated aromatic hydrocarbon)
- **Transport hazard class(es)**
 - **ADR, ADN**
 - **Class**
- Void
-
- **IMDG, IATA**
- 

- **Class**
 - **Label**
- 9 Miscellaneous dangerous substances and articles.
9
- **Packing group**
 - **ADR**
 - **IMDG, IATA**
- Void
III
- **Environmental hazards:**
 - **Marine pollutant:**
 - **Special marking (IATA):**
- Yes
Symbol (fish and tree)
Symbol (fish and tree)
- **Special precautions for user**
 - **EMS Number:**
- Not applicable.
F-A,S-F
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
- Not applicable.

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.

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The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

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



Xi Irritant

· **Risk phrases:**

- 36 Irritating to eyes.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Safety phrases:**

- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
24/25 Avoid contact with skin and eyes.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

· **National regulations:**

· **Technical instructions (air):**

| Class | Share in % |
|-------|------------|
| NK | 10 - 25 |

- **Waterhazard class:** Water hazard class 1 (VwVwS 17.05.99): slightly 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**

- R10 Flammable.
R22 Harmful if swallowed.
R36 Irritating to eyes.
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.

· **Department issuing MSDS:** environment protection department

· **Contact:**

Herr Karasmann Tel. +49 (0)451-49960-0
Herr Grützmacher Tel. +49 (0)2056-25863-6

· *** Data compared to the previous version altered.**