

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

- **Product identifier**
- **Trade name** NEUKADUR Füller ALAF
- **Utilization of the substance of the formulation:** Filler
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** SU12 Manufacture of plastics products, including compounding and conversion
- **Application for the substance / the preparation** Filler/ Extender
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ALTRÖPOL 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** Not applicable.
- **Information concerning particular hazards for human and environment:**  
The product does not have 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:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Safety phrases:**  
7/8 Keep container tightly closed and dry.  
22 Do not breathe dust.  
33 Take precautionary measures against static discharges.  
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
60 This material and its container must be disposed of as hazardous waste.
- **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: 1344-28-1 EINECS: 215-691-6	aluminium oxide	substance with a Community workplace exposure limit	10 - 25%
CAS: 1314-23-4 EINECS: 215-227-2	zirconium dioxide	substance with a Community workplace exposure limit	10 - 25%

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· **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.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:**  
Carbon dioxide  
Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Wear fully protective suit.

#### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.  
Keep away from ignition sources.  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Keep away from water.  
Ensure adequate ventilation.
- **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.

#### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Open and handle receptacle with care.  
Prevent formation of dust.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Segregate from foods and animal feeds. Segregate from acids. Segregate from oxidants.
- **Information about storage in one common storage facility:**  
Store away from water.  
Store away from flammable substances.  
Do not store together with alkalis (caustic solutions).  
Do not store together with oxidizing and acidic materials.
- **Further information about storage conditions:**  
Protect from humidity and water.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **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:****1344-28-1 aluminium oxide**

WEL (Great Britain)	Long-term value: 10* 4** mg/m <sup>3</sup> *inhalable dust **respirable dust
AGW (Germany)	Long-term value: 3* 10** mg/m <sup>3</sup> 2(II);*alveolengängige **eintembare Fraktion; AGS
MAK (Austria)	Short-term value: 10 A mg/m <sup>3</sup> Long-term value: 5 A mg/m <sup>3</sup> (gemessen als Alveolarstaub)

**1314-23-4 zirconium dioxide**

WEL (Great Britain)	Short-term value: 10 mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> as Zr
AGW (Germany)	Long-term value: 1E mg/m <sup>3</sup> 1(I);10, DFG, Sah

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **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.

- **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:**

<b>Form:</b>	Solid
<b>Colour:</b>	Silver grey
<b>Odour:</b>	Characteristic

- **Change in condition**

<b>Melting point/Melting range:</b>	ca. 660 °C
<b>Boiling point/Boiling range:</b>	ca. 2500 °C

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Contact with water liberates extremely flammable gases.

- **Ignition temperature:** 400 °C

- **Self-igniting:** Spontaneously flammable in air.

- **Danger of explosion:** reagiert heftig mit der Wasser unter Bildung leicht entzündlicher Gase

- **Explosion limits:**

<b>Lower:</b>	ab 30g /cm <sup>3</sup>
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- **Density at 20 °C:** ca. 2.7 g/cm<sup>3</sup>

- **Solubility in / Miscibility with water:**

Insoluble.

- **Solvent content:**

<b>Organic solvents:</b>	0.0 %
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- **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.  
Exothermic thermal decomposition.

- **Possibility of hazardous reactions**

Contact with water releases flammable gases.  
Danger of explosion.  
Reacts with acids, alkalis and oxidizing agents.

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*Risk of dust explosion.*

- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** water , alcohol , amine , base and acid
- **Hazardous decomposition products:** Hydrogen

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** no datas available
- **on the eye:** no datas available
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |                                     |      |
|-------------------------------------|------|
| · <b>UN-Number</b>                  |      |
| · <b>ADR, ADN, IMDG, IATA</b>       | Void |
| · <b>UN proper shipping name</b>    |      |
| · <b>ADR, ADN, IMDG, IATA</b>       | Void |
| · <b>Transport hazard class(es)</b> |      |
| · <b>ADR, ADN, IMDG, IATA</b>       |      |
| · <b>Class</b>                      | Void |
| · <b>Packing group</b>              |      |
| · <b>ADR, IMDG, IATA</b>            | Void |

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- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>Environmental hazards:</b>                                                  |                 |
| · <b>Marine pollutant:</b>                                                       | No              |
| · <b>Special precautions for user</b>                                            | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- **Safety phrases:**  
7/8 Keep container tightly closed and dry.  
22 Do not breathe dust.  
33 Take precautionary measures against static discharges.  
43 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.  
60 This material and its container must be disposed of as hazardous waste.
- **National regulations:**
- **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.

- **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.**

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