

Safety data sheet

acc. to 1907/2006/EC, Article 31 (REACH), 1272/2008/EC (CLP) and 453/2010/EC

Printing date 20.01.2015

Version number 1

Revision: 20.01.2015

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

1.1 Product identifier

Trade name **Aluminiumhydroxid NF**
Article number: **25105**

Article number: 25105

CAS Number:

21645-51-2

EC number:

244-492-7

Registration number 01-2119529246-39-0010

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the mixture

Construction chemicals

Formulation additive

Processing aid

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Kurita Europe APW GmbH

Giulinistraße 2

D-67065 Ludwigshafen

www.kurita.eu

Tel: +49 621 5709-3000

Fax: +49 621 5709-6452

Information:

MSDS@kurita.eu

1.4 Emergency telephone number: Tel.: +49 621 / 5709-112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not to be classified according to the CLP regulation.

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

Information concerning particular hazards for human and environment: Void

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

CAS No. Designation:

21645-51-2 aluminium hydroxide

Identification number(s):

EC number: 244-492-7

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SECTION 4: First aid measures

- . **4.1 Description of first aid measures**
- . **General information** No special measures required.
- . **After inhalation** : Supply fresh air; consult doctor in case of symptoms.
- . **After skin contact** :
Wash with water and soap.
The product is not skin irritating.
- . **After eye contact** : Rinse opened eye for 15 minutes under running water. If symptoms persist, consult doctor.
- . **After swallowing** : Rinse out mouth and then drink plenty of water (approx. 500 ml).
- . **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**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water jet. Fight larger fires with foam.
- . **5.2 Special hazards arising from the substance or mixture** none
- . **5.3 Advice for firefighters**
- . **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

- . **6.1 Personal precautions, protective equipment and emergency procedures**
Avoid causing dust.
Wear protective clothing.
- . **6.2 Environmental precautions:** No special measures required.
- . **6.3 Methods and material for containment and cleaning up:** Collect mechanically.
- . **6.4 Reference to other sections** No dangerous materials are released.

SECTION 7: Handling and storage

- . **7.1 Precautions for safe handling**
Prevent formation of dust.
Provide suction extractors if dust is formed.
- . **Information about protection against explosions and fires:**
The product is not flammable
No special measures required.
- . **7.2 Conditions for safe storage, including any incompatibilities**
- . **Storage**
- . **Requirements to be met by storerooms and containers:** No special requirements.
- . **Information about storage in one common storage facility:** Not required.
- . **Further information about storage conditions:** Store under dry conditions.
- . **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

. **Additional information about design of technical systems:** No further data; see section 7.

. **8.1 Control parameters**

. **Components with critical values that require monitoring at the workplace:** Not required.

. **DNELs**

21645-51-2 aluminium hydroxide

Oral General population 2.37 mg/kg bw/day (long-term exposure, systemic effects)

Inhalative Worker 3.59 mg/m³ (long-term exposure, local effect)

. **Additional information:** The lists that were valid during compilation were used as a basis.

. **8.2 Exposure controls**

. **Personal protective equipment**

. **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Wash hands during breaks and at the end of the work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes.

. **Breathing equipment:**

Short term filter device: ABEK-filter

Filter P1.(For solid particles, DIN 3181)

. **Protection of hands:** Not required.

. **Material of gloves** not applicable

. **Penetration time of glove material** not applicable

. **Eye protection:** Safety glasses (DIN 58211, EN 166)

. **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

. **9.1 Information on basic physical and chemical properties**

. **General Information**

. **Appearance:**

Form: Solid

Colour: White

. **Smell:** Odourless

. **Odour threshold:** not applicable

. **pH-value (100 g/l) at 20 °C:** ca. 5.5 (Suspension)

. **Change in condition**

Melting point/Melting range: > 1000 °C

Boiling point/Boiling range: not determined

. **Flash point:** Not applicable

. **Inflammability (solid, gaseous)** not determined

. **Ignition temperature:** not applicable

. **Decomposition temperature:** > 150 °C

. **Danger of explosion:** Product is not explosive.

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- . **Critical values for explosion:**
 - Lower: not determined
- . **Oxidising properties** none
- . **Steam pressure at 20 °C:** < 0.1 hPa
- . **Density**
 - Settled apparent density at 20 °C ca. 250 kg/m³
 - Evaporation rate not determined
- . **Solubility in / Miscibility with Water:** Insoluble
- . **Partition coefficient (n-octanol/water):** not applicable
- . **Viscosity:**
 - dynamic: not applicable
- . **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- . **10.1 Reactivity** No hazardous reactions when stored and handled according to instructions.
- . **10.2 Chemical stability**
 - Thermal decomposition / conditions to be avoided:**
Can decompose slowly with localised heating above 150 °C
Thermal decomposition on losing water
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** May react vigorously with strong acids.
- . **10.6 Hazardous decomposition products:** No dangerous decomposition products known

* SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
 - . **Acute toxicity:**
 - . **LD/LC50 values that are relevant for classification:**
21645-51-2 aluminium hydroxide
Oral LD50 > 2000 mg/kg (rat)
 - . **Primary irritant effect:**
 - . **on the skin:** No irritant effect.
 - . **on the eye:** Moderate irritation
 - . **Sensitisation** No sensitizing effect known.
 - . **Repeated dose toxicity** No further relevant information available.
 - . **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** No further relevant information available.

SECTION 12: Ecological information

- . **12.1 Toxicity**
 - . **Aquatic toxicity:** No further relevant information available.
- . **12.2 Persistence and degradability** Inorganic salts are basically not biodegradable.
- . **Other information:** Easy elimination possible by flocculation or adsorption by sludge.

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- . **12.3 Bioaccumulative potential** No further relevant information available.
- . **12.4 Mobility in soil** No further relevant information available.
- . **Ecotoxicological effects:**
- . **Other information:**
No VOC according to EC-directive 1999/13/EC
No COD, no BOD, no AOX
- . **Additional ecological information:**
- . **According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:**
None
- . **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**
Smaller quantities can be disposed with household garbage.
Can be deposited with household garbage after consulting with the operator of the waste disposal facility and the pertinent authorities and under adherence to the necessary technical regulations.
- . **European waste catalogue**
16 03 04 inorganic wastes other than those mentioned in 16 03 03
- . **Uncleaned packaging:**
- . **Recommendation:**
Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
Packagings that cannot be cleaned are to be disposed of in the same manner as the product.
Dispose of packaging according to regulations on the disposal of packagings.
- . **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- | | |
|---|---|
| . 14.1 UN-Number | |
| . ADR, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | |
| . ADR, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | |
| . ADR, IMDG, IATA | |
| . Class | Void |
| . 14.4 Packing group | |
| . ADR, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | Not applicable. |
| . 14.6 Special precautions for user | Not applicable. |
| . 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| . Transport/Additional information: | Not dangerous according to the above regulations. |
| . UN "Model Regulation": | - |

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SECTION 15: Regulatory information

- . **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- . **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- . **Department issuing data specification sheet:** Product Safety and Regulatory Affairs
- . **Contact:** MSDS@kurita.eu
- . **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)
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
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
- . **Sources:** source ECHA: European Chemicals Agency, <http://echa.europa.eu/>
- . *** Data compared to the previous version altered.**