

# according to Regulation (EC) No 1907/2006 Aluminium hydroxide pure

Revision date: 17.08.2023

Product code: 25245

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

## 1.1. Product identifier

Aluminium hydroxide pure

6100-20-5
607-007-00-3
204-874-6

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

#### Use of the substance/mixture

#### Laboratory chemicals

Industrial uses: Uses of substances as such or in preparations at industrial sites Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

#### Uses advised against

Do not use for private purposes (household).

#### 1.3. Details of the supplier of the safety data sheet

Company name:	AnalytiChem GmbH	
Street:	Stempelstraße 6	
Place:	D-47167 Duisburg	
Telephone:	0203/5194-0	Telefax: 0203/5194-290
E-mail:	info@analytichem.de	
Contact person:	Abteilung Produktsicherheit	Telephone: 0203/5194-107/117
E-mail:	produktsicherheit@analytichem.de	
Internet:	www.analytichem.de	
Responsible Department:	Abteilung Produktsicherheit	
1.4. Emergency telephone	For Hazardous Materials [or Danger	ous Goods] Incidents Spill, Leak, Fire,
number:	1-800-424-9300 Outside USA and C	REC Day or Night Within USA and Canada: Canada: +1 703-741-5970 (collect calls
	accepted)	

#### **Further Information**

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Acute Tox. 4; H312 Acute Tox. 4; H302

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Warning

Pictograms:



Hazard statements H302+H312

Harmful if swallowed or in contact with skin.



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Precautionary statements P302+P352 IF ON SKIN: Wash with plenty of soap and water.				
2.3. Other hazards No data available				

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Sum formula:	C4H3KO8 * 2 H2O
Molecular weight:	254,20 g/mol

#### Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
6100-20-5	-5 ethanedioic acid, potassium salt (2:1), dihydrate 204-874-6 607-007-00-3		100 %	
	Acute Tox. 4, Acute To:	x. 4; H312 H302		

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. L	imits, M-factors and ATE	
6100-20-5	0-20-5 204-874-6 ethanedioic acid, potassium salt (2:1), dihydrate		100 %
	dermal: ATE = 1100 mg/kg; oral: ATE = 500 mg/kg		

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

#### **General information**

No data available

#### After inhalation

Provide fresh air.

## After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse. Call a physician immediately.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

## After ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

#### 4.2. Most important symptoms and effects, both acute and delayed

Gastrointestinal complaints, Vomiting Cough, Dyspnoea Cardiac arrhythmias, Circulatory collapse



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## 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media

no restriction

#### 5.2. Special hazards arising from the substance or mixture

Combustible solids

Hazardous combustion products

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Avoid contact with skin, eyes and clothes.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety. Emergency procedures Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

No special environmental measures are necessary.

## 6.3. Methods and material for containment and cleaning up

## For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**



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## 7.1. Precautions for safe handling

## Advice on safe handling

Read label before use. Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Avoid dust formation. Do not breathe dust.

## Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### Further information on handling

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work. Draw up and observe skin protection programme.

### 7.2. Conditions for safe storage, including any incompatibilities

## Requirements for storage rooms and vessels Keep container tightly closed and dry.

Further information on storage conditions

storage temperature: +15°C - +25°C

## 7.3. Specific end use(s)

Laboratory chemicals

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min



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By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

## **Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Filtering device with filter or ventilator filtering device of type: P2

## **Environmental exposure controls**

Do not allow to enter into surface water or drains.

### **SECTION 9: Physical and chemical properties**

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

T. Information on basic physical and the		
Physical state:	solid	
Colour:	whitish	
Odour:	odourless	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lauran ann la stan linstea		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not applicable
Decomposition temperature:		>128 °C
pH-Value (at 25 °C):		1,7 (12,6 g/l)
Viscosity / kinematic:		not determined
Water solubility:		25 g/L
(at 20 °C)		C C
Solubility in other solvents		
not determined		
Dissolution rate:		not determined
Partition coefficient n-octanol/water:		not determined
Dispersion stability:		not determined
Vapour pressure:		not determined
Vapour pressure:		not determined
Density:		1,84 g/cm <sup>3</sup>
Relative density:		not determined
Bulk density:		860 kg/m³
Relative vapour density:		not determined
Particle characteristics:		not determined
2 Other information		

## 9.2. Other information



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AnalytiChem GmbH
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Aluminium	hydroxide pure	
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No data available

not determined

not applicable

not determined not determined

not determined

not determined

not determined

not determined

not determined

not determined

100%

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## Information with regard to physical hazard classes Explosive properties

Danger of dust explosion. Sustaining combustion: Self-ignition temperature Solid: Gas: Oxidizing properties not determined

#### Other safety characteristics

Evaporation rate: Solvent separation test: Solvent content: Solid content: Sublimation point: Softening point: Pour point: not determined: Viscosity / dynamic: Flow time:

## **Further Information**

not determined

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Danger of dust explosion.

## 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

Oxidising agent, strong

## 10.4. Conditions to avoid

Heat

### 10.5. Incompatible materials

No data available

#### 10.6. Hazardous decomposition products

No data available

#### Further information

No data available

#### **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicocinetics, metabolism and distribution

not determined

## Acute toxicity

Harmful if swallowed. Harmful in contact with skin.



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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
6100-20-5	ethanedioic acid, potassi	um salt (2:1), dihydrate			
	oral	ATE 500 mg/kg			
	dermal	ATE 1100 mg/kg			

#### Irritation and corrosivity

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

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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. No data available

## Information on likely routes of exposure

not determined

## Specific effects in experiment on an animal

No data available

## Additional information on tests

No data available

## **Practical experience**

No data available

## 11.2. Information on other hazards

#### Endocrine disrupting properties

not determined

#### Other information No data available

#### Further information

Gastrointestinal complaints, Vomiting Cough, Dyspnoea Cardiac arrhythmias, Circulatory collapse

## **SECTION 12: Ecological information**

## 12.1. Toxicity

No data available

#### 12.2. Persistence and degradability

No data available

#### 12.3. Bioaccumulative potential

No data available

#### 12.4. Mobility in soil

No data available



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## 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII. No data available

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms. not determined

## 12.7. Other adverse effects

Do not empty into drains.

#### **Further information**

Discharge into the environment must be avoided.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a hazardous waste incinerator facility under observation of official regulations. Do not mix with other wastes. Do not empty into drains.

#### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## **SECTION 14: Transport information**

#### Land transport (ADR/RID)

#### 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS: No 14.6. Special precautions for user No dangerous good in sense of this transport regulation. 14.7. Maritime transport in bulk according to IMO instruments not applicable



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## SECTION 15: Regulatory information

<u>15</u>	15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
	EU regulatory information			
	Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)		
	National regulatory information			
	Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.		
	Water hazard class (D):	1 - slightly hazardous to water		

## **SECTION 16: Other information**

## 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 Harmonized 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 LC50: Lethal concentration, 50% LD50: Lethal dose, 50% Acute Tox: Acute toxicity Relevant H and EUH statements (number and full text) H302 Harmful if swallowed

H302	Harmful If swallowed.
H302+H312	Harmful if swallowed or in contact with skin.
H312	Harmful in contact with skin.

## Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.