

## Material Safety Data Sheets (MSDS)

### Aluminium Hydroxide

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#### Identification of Product

Chemical Code: CHE-15

Chemical Name: Aluminium Hydroxide

Chemical Grade:

Chemical Formula:  $H_3AlO_3$

Chemical Weight: 78.00 g/mol

CAS No: 21645-51-2

Chemical Synonyms:

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#### Hazards Identification

REACH No: No Data Available

Signal Word:

Supplemental Hazard Information: Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Additional Hazard Information: None

#### Hazards statements

Precautionary statements

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#### Composition of Chemical

Chemical Formula:  $H_3AlO_3$

## First Aid Measures

General Advice: No Data Available

If: Inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

If: Skin Contact: Wash off with soap and plenty of water.

If: Eye Contact: Flush eyes with water as a precaution.

If: Swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water.

Important Symptoms: The most important known symptoms and effects are described in the labeling section.

Immediate Medical Attention: No Data Available

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## Firefighting Measures

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical or Carbon Dioxide.

Hazards Arising: Aluminum Oxide

Advice for Firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Info for Firefighting: No Data Available

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## Accidental Release Measures

Personal Precautions: Avoid dust formation. Avoid breathing vapours, mist or gas.

Environmental Precautions: No special environmental precautions required.

Method for Containment: Sweep up and shovel. Keep in suitable, closed containers for disposal.

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## Handling and Storage

Personal Precautions: Provide appropriate exhaust ventilation at places where dust is formed.

Environmental Precautions: Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

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## Exposure Controls | Personal Protection

Derived No Effect Level (DNEL)

Workers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Consumers | Application Area | Exposure Routes | Health Effect | Value

No Data Available

Predicted No Effect Concentration (PNEC)

No Data Available

Engineering Controls: General industrial hygiene practice

Eye/Face Protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin Protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril®

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm

Break through time: 480 min

Material tested: Dermatril®

Data source: KCL GmbH, D-36124, Test method: EN 374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection: Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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Physical and Chemical Properties

Appearance: White powder

Odour: No Data Available

Odour Threshold: No Data Available

pH: No Data Available

Melting Point: Melting point/range: 300°C

Boiling Point: No Data Available

Flash Point: No Data Available

Evaporation: No Data Available

Flammability: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapour pressure: No Data Available

Vapour density: No Data Available

Relative density: 2.42 g/cm<sup>3</sup>

Water solubility: Insoluble

Partition Coefficient: No Data Available

Auto-ignition Temperature: No Data Available

Decomposition Temperature: No Data Available

Viscosity: No Data Available

Explosive properties: No Data Available

Oxidizing properties: No Data Available

Other Safety Info: No Data Available

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## Stability and Reactivity

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions

Possibility of hazardous reactions: No Data Available

Conditions to Avoid: No Data Available

Incompatible Materials: Strong Acids

Hazardous Decomposition Products: No Data Available

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## Toxicological Information

Acute Toxicity: LD50 Oral - rat - female -> 2.000 mg/kg (OECD Test Guideline 423)

Skin Corrosion/Irritation: Skin - rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious Eye damage | Eye Irritation: Eyes - rabbit

Result: No eye irritation (OECD Test Guideline 405)

Cell Mutagenicity: Mouse: lymphocyte

Result: Negative

Mutagenicity (micronucleus test): rat - male

Result: Negative

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: Reproductive toxicity - Human - female - Oral

Effects on Newborn: Physical

Specific Target Organ Toxicity - Single Exposure: No Data Available

Specific Target Organ Toxicity - Repeated Exposure: No Data Available

Aspiration Hazard: No Data Available

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## Ecological Information

Ecological Toxicity: Toxicity to fish: semi-static test NOEC - *Salmo trutta* -> 0.07 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates: static test NOEC - *Daphnia magna* (Water flea) -> 0.005 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae: static test NOEC - *Pseudokirchneriella subcapitata* (*Selenastrum capricornutum*) -> 0.004 mg/l - 72 h (OECD Test Guideline 201)

Ecological Persistence and degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Results of PBT and vPvB Assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other Adverse Effect: No Data Available

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## Disposal Considerations

Waste Treatment Methods: Product:

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging:

Dispose of as unused product.

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## Transport Information

UN Number: ADR/RID: -

IMDG: -

IATA: -

UN Shipping Hazard: ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport Hazard Class: ADR/RID: -

IMDG: -

IATA: -

Packaging Group: ADR/RID: -

IMDG: -

IATA: -

Environmental Hazards: ADR/RID: no

IMDG Marine pollutant: no

IATA: no

Special Precautions: No Data Available

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## Regulatory Information

Safety, Health and environmental regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical Safety Assessment: For this product a chemical safety assessment was not carried out.

Additional Info: RTECS: BD0940000

Nausea, Vomiting, Constipation.

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### Disclaimer

The information stated above is considered to be correct, but does not claim to be inclusive and shall only be used as a guideline. The information provided by this document is confirmed by our continuous updating of knowledge and adheres to the products appropriate safety precautions. It does not represent any guarantee of the product's properties. RLS Chemicals and its Associates shall not be held accountable for any damage's consequent of handling the above product.

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