

SDS no. 33N3VJZY • Version 1.0 • Date of issue: 2023-11-10

# **SECTION 1: Identification**

# **GHS Product identifier**

Product name

ALUMINIUM OXIDE Calcined

## Other means of identification

Aluminum trioxide, Alumina, Anti-bumping granules, Corundum ALUMINIUM OXIDE Calcined LR Aluminium Oxide Calcined AR ANTI-BUMPING GRANULES TG

# Recommended use of the chemical and restrictions on use

Abrasives, filler in varnishes, paints and resins, polishing agent, food additive (dispersing agent), manufacture of aluminium alloys, refractories, ceramics, crucibles and laboratory wares, spark plugs, dental cements, glass, steel, coatings for steel, electrical insulators and resistors, heat-resistant fibers, catalyst and catalyst supports, paper, adsorbant for gases and water vapours, fluxes, light bulbs, artificial gems, chromatographic analysis and laboratory reagent.

Additional information: Activated' aluminium oxides for chromatography and drying are gamma-alumina or hydrated forms.

## Supplier's details

NameChemSupply Australia Pty LtdAddress38-50 Bedford Street5013 Gillman South AustraliaAustraliaTelephone08 8440 2000emailwww.chemsupply.com.au

**Emergency phone number** 

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

# **SECTION 2: Hazard identification**

## **General hazard statement**

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

## Classification of the substance or mixture

# GHS classification in accordance with: UN GHS revision 7

Not a hazardous substance or mixture.

### GHS label elements, including precautionary statements

Not a hazardous substance or mixture.

## Other hazards which do not result in classification

Not a hazardous substance or mixture.

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

#### **Mixtures**

Molecular weight: 101.96

[AS] Composition, information on ingredients: Product AL071 Aluminium oxide may contain <1% of respirable silica in the form of quartz.

#### Components

Component	CAS no.	Concentration
Aluminum oxide (EC no.: 215-691-6)	1344-28-1	99 - 100 % (weight)
CLASSIFICATIONS: No data available. HAZARDS: No data available.		

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

### **Description of necessary first-aid measures**

General advice	First Aid Facilities: Maintain eyewash fountain in work area.
If inhaled	Remove victim to fresh air. If breathing has stopped, apply artificial respiration. Seek medical advice if effects persist.
In case of skin contact	Wash with plenty of soap and water. Seek medical advice if effects persist.
In case of eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.
If swallowed	Rinse mouth thoroughly with water immediately. Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.

### Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

### Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically based on judgement of doctor and individual reactions of the patient.

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor.

# **SECTION 5: Fire-fighting measures**

### Suitable extinguishing media

Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

#### Specific hazards arising from the chemical

Material does not burn. Not a fire hazard.

#### Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

# **SECTION 6: Accidental release measures**

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

Avoid dust formation and avoid breathing dust. Wear protective clothing specified for normal operations (see Section 8)

#### Methods and materials for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Keep in suitable, closed containers for disposal.

# **SECTION 7: Handling and storage**

### Precautions for safe handling

Avoid generation or accumulation of dusts. Use with adequate ventilation.

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

Store in a cool, dry place. Keep containers closed at all times. Keep in a well-ventilated place

Store at room temperature (15 to 25 °C recommended).

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

#### Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

#### Individual protection measures, such as personal protective equipment (PPE)

#### **Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

#### **Skin protection**

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.

#### **Body protection**

Wear suitable protective clothing and gloves to prevent skin contact. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

#### **Respiratory protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be

made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

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

## Basic physical and chemical properties

Physical state Appearance Color Odor Odor threshold Melting point/freezing point Boiling point or initial boiling point and boiling range Flammability Lower and upper explosion limit/flammability limit Flash point Explosive properties Auto-ignition temperature Decomposition temperature Oxidizing properties рΗ Kinematic viscosity Solubility Partition coefficient n-octanol/water (log value) Vapor pressure Evaporation rate Density and/or relative density Relative vapor density Particle characteristics

## Supplemental information regarding physical hazard classes No data available.

# Further safety characteristics (supplemental)

Other Information: Moh's hardness: 8.8 - very hard Difficultly soluble in mineral acids and strong alkali.

# **SECTION 10: Stability and reactivity**

## Reactivity

Stable under normal conditions of storage and handling.

## **Chemical stability**

Stable.

## Possibility of hazardous reactions

[Aluminium oxide reacts violently with chlorine trifluoride, producing flame. Contact with ethylene oxide may cause violent polymerisation.

## **Conditions to avoid**

Exposure to moisture and incompatibles.

Solid White balls, lumps or powder, No data available. Odourless. No data available. 2045 °C 2980 °C No data available. ~ 10.0 (20% slurry) No data available. Solubility in Water: Insoluble. No data available. No data available. No data available. Specific Gravity: 3.96 No data available. No data available.

### Incompatible materials

Chlorine trifluoride and ethylene oxide. Halogen-halogen compounds, halogen oxides, fluorine, hydrogen halides, nitrates, vinyl compounds. Strong acids and strong bases.

### Hazardous decomposition products

No data available.

# **SECTION 11: Toxicological information**

### Information on toxicological effects

#### Acute toxicity

Aluminium oxide does not cause permanent changes in lung structure and function as indicated by animal studies.

Ingestion: May be harmful if swallowed. Ingestion of large quantities may cause gastrointestinal tract irritation. Symptoms include nausea and vomiting.

Inhalation: Inhalation of dust may cause irritation and drying of the respiatory tract after exposure to high concentrations. Dust deposited in nose and throat may cause mild irritation due to abrasion with symptoms including coughing, sneezing, vomiting, cyanosis, pulmonary edema and shortness of breath.

### Skin corrosion/irritation

May cause mild irritation to the skin by abrasion with acute effects of dryness, redness and pain. May be harmful if absorbed through skin.

### Serious eye damage/irritation

Dust deposited in the eyes may cause irritation due to abrasion.

### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

No data available.

#### Carcinogenicity

Product AL071 may contain a small proportion of crystalline silica as quartz (<1%). Crystalline silica has been classified by the International Agency for Reseach on Cancer (IARC) as carcinogenic to humans by inhalation (Group 1). Furthermore crystalline silica can cause silicosis or other lung disease on prolonged exposure.

## **Reproductive toxicity**

No data available.

Summary of evaluation of the CMR properties No data available.

**Specific target organ toxicity (STOT) - single exposure** No data available.

Specific target organ toxicity (STOT) - repeated exposure No data available.

Aspiration hazard No data available.

## Additional information

Chronic Effects: Aluminium oxide dust may accumulate in the lungs if high concentrations are inhaled. There have been no reports in the literature of health effects in workers arising from long term exposure to this substance, and no comprehensive human studies have been conducted. No animal studies have been conducted for long term effects.

# **SECTION 12: Ecological information**

**Toxicity** No data available.

**Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

# **Results of PBT and vPvB assessment**

No data available.

**Endocrine disrupting properties** No data available.

## Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### **Disposal methods**

**Product disposal** Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

### Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

# **SECTION 14: Transport information**

ADG (Road and Rail) Not dangerous goods

IMDG Not dangerous goods

IATA Not dangerous goods

# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

**Australia SUSMP** 

Poison Schedule: NS

# **SECTION 16: Other information**

## Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.' Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020. Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020. Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019 Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au IATA, Dangerous Goods Regulations (DGR) IMO, International Maritime Dangerous Goods Code (IMDG)