



## Safety Data Sheet

Date of Issue: 14.10.2024

Date of Expiry: 14.10.2029

### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Company Name** : ECP Limited  
**Address** : PO Box 34125, Birkenhead, Auckland 0746  
**Telephone** : +64 9 480 4386  
**Facsimile** : +64 9 480 4385  
**Emergency phone number** : 0800 243 622 (24 hours)

|                     |                          |
|---------------------|--------------------------|
| <b>Product Name</b> | <b>Activated Alumina</b> |
| <b>Product Code</b> | 13908                    |
| <b>CAS No.</b>      | 1344-28-1                |

**Recommended use** : Laboratory Investigations

### 2: Hazard's identification

#### 2.1 GHS Classification

Not a hazardous substance or mixture.

#### 2.2 GHS Label elements, including precautionary statements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

**2.3 Other hazards** - none.

### 3: Composition/information on ingredients

#### 3.1 Substances

**Synonyms** : Alumina  
**Formula** : Al<sub>2</sub>O<sub>3</sub>  
**Molecular weight** : 101.96 g/mol  
**CAS-No.** : 1344-28-1  
**EC-No.** : 215-691-6

### 4: First aid measures

#### 4.1 Description of first-aid measures

##### If inhaled

After inhalation: fresh air.

##### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

##### In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

##### If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

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

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

No data available

### **5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

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

Aluminium oxide

Not combustible.

Ambient fire may liberate hazardous vapours.

#### **5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.

#### **5.4 Further information**

Do not use halocarbon extinguishers. None

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

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

#### **6.2 Environmental precautions**

No special precautionary measures necessary.

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

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **6.4 Reference to other sections**

For disposal see section 13.

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

#### **7.1 Precautions for safe handling**

For precautions see section 2.2.

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

##### **Storage conditions**

Tightly closed. Dry.  
strongly hygroscopic

##### **Storage class**

Storage class (TRGS 510): 13: Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits Table

| Component       | CAS No.   | Value   | Control Parameters  | Basis  |
|-----------------|-----------|---------|---------------------|--|
| aluminium oxide | 1344-29-1 | WES-TWA | 1 mg/m <sup>3</sup> | New Zealand. Workplace Exposure Standards for Atmospheric Contaminants |

### 8.2 Exposure controls

#### Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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.

##### Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

##### Control of environmental exposure

No special precautionary measures necessary.

## 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) Physical state : Powder , Granules
- b) Color : No data available
- c) Odor : No data available
- d) Melting point/freezing point :  
Melting point/ range : 2,040 °C
- e) Initial boiling point :  
and boiling range : 2,980 °C
- f) Flammability (solid, gas) : The product is not flammable.
- g) Upper/lower flammability or explosive limits: No data available
- h) Flash point : Not applicable
- i) Autoignition temperature : No data available

|   |   |   |
|---|---|---|
| j) Decomposition temperature              | : | No data available                               |
| k) pH                                     | : | No data available                               |
| l) Viscosity                              |   |   |
| Viscosity, kinematic                      | : | No data available                               |
| Viscosity, dynamic                        | : | No data available                               |
| m) Water solubility                       | : | at 20 °C - OECD Test Guideline 105<br>insoluble |
| n) Partition coefficient: n-octanol/water | : | Not applicable for inorganic substances         |
| o) Vapor pressure                         | : | No data available                               |
| p) Density                                | : | 3.94 g/cm <sup>3</sup> at 20 °C                 |
| Relative density                          | : | No data available                               |
| q) Relative vapor density                 | : | No data available                               |
| r) Particle characteristics               | : | No data available                               |
| s) Explosive properties                   | : | No data available                               |
| t) Oxidizing properties                   | : | none  |

## 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

### 10.3 Possibility of hazardous reactions

Exothermic reaction with:

halogen-halogen compounds

Ethylene oxide

Fluorine

Hydrogen halides

vinyl acetate

Risk of explosion with:

nitrates

halogen oxides

### 10.4 Conditions to avoid

Exposure to moisture.

### 10.5 Incompatible materials

No data available

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

## 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female - > 10,000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - > 2.3 mg/l - aerosol

(OECD Test Guideline 403)

Dermal: No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h

(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

**Respiratory or skin sensitization**

Draize Test - Guinea pig

Result: Does not cause skin sensitization.

- Mouse

Result: Does not cause respiratory sensitization.

**Germ cell mutagenicity**

Test Type: Ames test

Test system: Bacillus subtilis

Result: negative

Remarks: (IUCLID)

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**11.2 Additional Information**

RTECS: BD1200000

Cough, chest pain, Difficulty in breathing, Gastrointestinal disturbance

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence

**12: Ecological information**

**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

## 12.6 Endocrine disrupting properties

No data available

## 12.7 Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

## 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

## 14: Transport Information Table

|      |   | <b>ADR/RID –<br/>European<br/>packaging<br/>certification</b> | <b>IMDG<br/>International<br/>Maritime<br/>Dangerous<br/>Goods Code</b> | <b>IATA – DGR<br/>International Air<br/>Travel<br/>Association –<br/>Dangerous Goods<br/>Regulations</b> |
|------|---|---|---|--|
| 14.1 | <b>UN Number</b>                            | -   | -   | -  |
| 14.2 | <b>UN Proper<br/>Shipping name</b>          | Not dangerous<br>goods  | Not dangerous<br>goods  | Not dangerous<br>goods   |
| 14.3 | <b>Transport<br/>Hazard Class</b>           | -   | -   | -  |
| 14.4 | <b>Packaging group</b>                      | -   | -   | -  |
| 14.5 | <b>Environmental<br/>Hazards</b>            | No  | No  | No   |
| 14.6 | <b>Special<br/>precautions for<br/>user</b> | -   |   |  |

## 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulatory information

HSNO Approval Code:

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required, not required

Approved Handler Cert.: not required

## 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to

determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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