



## Safety Data Sheet

Date of Issue: 24.08.2020

Date of Expiry: 24.08.2025

### 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)

Product	Aluminium oxide			Code	0950
CAS#	HSNO#	UN #	DG Class/es	Packing group #	
1344-28-1					

**Recommended use** : Laboratory Investigations

### 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

### 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

### 4: First aid measures

#### 4.1 Description of first aid measures

##### If inhaled

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

##### In case of skin contact

Wash off with soap and plenty of water.

##### In case of eye contact

Flush eyes with water as a precaution.

##### If swallowed

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

#### 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 water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Aluminum oxide

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Do not use halocarbon extinguishers.

## 6: Accidental release measures

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

Avoid dust formation. Avoid breathing vapours, mist, or gas.

For personal protection see section 8.

### 6.2 Environmental precautions

No special environmental precautions required.

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

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

### 6.4 Reference to other sections

For disposal see section 13.

## 7: Handling and storage

### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

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

strongly hygroscopic

## 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Components with workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

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.

##### Respiratory protection

Respiratory protection is not required

## 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: solid
- b) Odour odourless
- c) Odour Threshold No data available
- d) pH No data available
- e) Melting point/freezing point  
Melting point/range: 2.040 °C - lit.
- f) Initial boiling point and boiling range  
2.980 °C
- g) Flash point Not applicable
- h) Evaporation rate No data available
- i) Flammability (solid, gas) The product is not flammable.
- j) Upper/lower flammability or explosive limits  
No data available
- k) Vapour pressure 1 hPa at 2.158 °C
- l) Vapour density No data available
- m) Relative density 4,000 g/cm<sup>3</sup>
- n) Water solubility insoluble
- o) Partition coefficient: octanol/water  
No data available
- p) Auto-ignition temperature  
No data available
- q) Decomposition temperature  
No data available
- r) Viscosity No data available
- s) Explosive properties Not explosive
- t) Oxidizing properties The substance or mixture is not classified as oxidizing.

## 10: Stability and reactivity

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Exposure to moisture

### 10.5 Incompatible materials

Strong acids, Strong bases, Chlorine trifluoride, Ethylene oxide, Halogenated hydrocarbon, Oxygen difluoride, Sodium nitrate, Vinyl compounds, Oxygen, Nitrates, Halogens

## 11: Toxicological information

## **11.1 Information on toxicological effects**

### **Acute toxicity**

LD50 Oral - Rat - > 10.000 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 2,6 mg/l

(OECD Test Guideline 403)

Remarks: No significant adverse effects were reported

### **Skin corrosion/irritation**

Skin - Rabbit

Result: No skin irritation

(OECD Test Guideline 404)

### **Serious eye damage/eye irritation**

Eyes - Rabbit

Result: No eye irritation

(OECD Test Guideline 405)

### **Respiratory or skin sensitisation**

Maximisation Test (GPMT) - Guinea pig

Result: Did not cause sensitisation on laboratory animals.

### **Germ cell mutagenicity**

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

## **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** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 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**

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

**Contaminated packaging**

Dispose of as unused product.

**14: Transport Information Table****14.1 UN number**

ADR/RID: - IMDG: - IATA: -

**14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4 Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5 Environmental hazards**

ADR/RID: no IMDG Marine pollutant: no IATA: no

**14.6 Special precautions for user**

No data available

**15: Regulatory information**

**15.1** Safety, health, and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2** Chemical safety assessment For this product a chemical safety assessment was not carried out

**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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