



# MATERIAL SAFETY DATA SHEET

PART NUMBERS: 15 99 84 and 15 99 85

## SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

**SUPPLIER:** METPREP LTD.  
CURRIERS CLOSE  
CHARTER AVENUE  
COVENTRY CV4 8AW  
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**DESCRIPTION:** Polishing Alumina

**PRODUCT:** Dry Powder Gamma (Micron size 0.05)

## SECTION 2 SUBSTANCE HAZARD IDENTIFICATION

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**  
Not classified

**Classification according to Directive 67/548/EEC or 1999/45/EC**  
Not classified

**Adverse physicochemical, human health and environmental effects**  
No additional information available

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**  
No labelling applicable

**2.3. Other hazards**  
No additional information available

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substance

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Aluminium oxide (Main constituent)	(CAS No) 1344-28-1 (EC no) 215-691-6	>= 99	Not classified

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium oxide (Main constituent)	(CAS No) 1344-28-1 (EC no) 215-691-6	>= 99	Not classified

Full text of R- and H-phrases: see section 16



### 3.2. Mixture

Not applicable

## SECTION 4 FIRST AID MEASURES

### 4.1. Description of first aid measures

First-aid measures general	:	Keep the victim calm, avoid physical strain. Keep watching the victim. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	:	Allow the victim to rest. Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	:	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	:	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid measures after ingestion	:	Call a POISON CENTER/doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries	:	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	:	Irritation of the respiratory tract. Irritation of the nasal mucous membranes. Coughing. Difficulty in breathing.
Symptoms/injuries after skin contact	:	Slight irritation.
Symptoms/injuries after eye contact	:	Direct contact with the eyes is likely to be irritating.
Chronic symptoms	:	Lung tissue affection/degeneration. May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

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

No additional information available.

## SECTION 5 FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing media	:	Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

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

Fire hazard	:	Not flammable.
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### 5.3. Advice for firefighters

Firefighting instructions	:	Use extinguishing media appropriate for surrounding fire. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	:	Do not enter fire area without proper protective equipment, including respiratory protection.



## SECTION 6

## ACCIDENTAL RELEASE MEASURES

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

#### **6.1.1. For non-emergency personnel**

- Protective equipment : Gloves. Protective clothing. Dust formation: dust mask.
- Emergency procedures : Mark the danger area. Evacuate unnecessary personnel. Prevent dust formation by wetting.
- Measures in case of dust release : Keep upwind. Close doors and windows of adjacent premises.

#### **6.1.2. For emergency responders**

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### **6.2. Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

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

- For containment : Containers which are opened should be properly resealed and kept upright to prevent leakage. Plug the leak, cut off the supply. Knock down/dilute dust cloud with water spray.
- Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Scoop solid spill into closing containers. Contaminated surfaces: clean

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

See Heading 8. Exposure controls and personal protection.

## SECTION 7

## HANDLING AND STORAGE

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

- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Keep container tightly closed.

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

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources. Keep container closed when not in use.
- Incompatible products : Strong bases. Strong acids.
- Incompatible materials : Strong acids, strong bases and oxidation agents.
- Storage area : Store in a well-ventilated place. Store in a dry area.

### **7.3. Specific end use(s)**

No additional information available



**SECTION 8 EXPOSURE CONTROL/PERSONAL PROTECTION**

**8.1. Control parameters**

Aluminium oxide (1344-28-1)

Belgium	Limit value (mg/m <sup>3</sup> )	1mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	10mg/m <sup>3</sup>
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>
United Kingdom	WEL TWA(mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>

**8.2. Exposure controls**

**8.2.1. Appropriate engineeringControls**

Local exhaust and general ventilation must be adequate to meet exposure standards.

**8.2.2. Personal protective equipment**

Gloves. In case of dust production: protective goggles. Protective clothing. Dust production: dust mask with filter type P2. Avoid all unnecessary exposure.

**Handprotection**

Protective gloves.

**Eye protection**

Chemical goggles or safety glasses

**Skin & Body protection**

Wear suitable protective clothing.

**Respiratory protection**

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

**Other information**

Do not eat, drink or smoke during use.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical state	:	Solid
Appearance	:	Powder.
Molecular mass	:	101,96 g/mol
Colour	:	white.
Odour	:	odourless.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	2038 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	Not applicable
Self ignition temperature	:	No data available
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	Non flammable
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Relative density	:	3,2



Density	:	3200 kg/m <sup>3</sup>
Solubility	:	insoluble in water. Insoluble in organic solvents. Soluble in acids. Soluble in bases.
Log Pow	:	No data available
Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available
Explosive limits	:	No data available

### **9.2. Other information**

VOC content	:	Not applicable
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## **SECTION 10 STABILITY AND REACTIVITY PROPERTIES**

### **10.1. Reactivity**

Stable under normal conditions.

### **10.2. Chemical stability**

Stable under normal conditions.

### **10.3. Possibility of hazardous reactions**

Not established.

### **10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

### **10.5. Incompatible materials**

Strong acids. Strong bases.

### **10.6. Hazardous decomposition products**

fume. Carbon monoxide. Carbon dioxide.

## **SECTION 11 TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

Acute toxicity : Not classified

#### **Aluminium oxide (1344-28-1)**

LD50 oral rat > 10000 mg/kg bodyweight (Rat; Experimental value,Rat; Experimental value)

Skin corrosion/irritation	:	Not classified Based on available data, the classification criteria are not met
Serious eye damage/irritation	:	Not classified Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	:	Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	:	Not classified Based on available data, the classification criteria are not met
Carcinogenicity	:	Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	:	Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	:	Not classified Based on available data, the classification criteria are not met



Specific target organ toxicity (repeated exposure) : Not classified  
 Based on available data, the classification criteria are not met  
 Aspiration hazard : Not classified  
 Based on available data, the classification criteria are not met  
 Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

**SECTION 12 ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Ecology - water : No water pollutant (surface water). No data available on ecotoxicity.

**12.2. Persistence and degradability**

Persistence and degradability	Biodegradability: Not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

**12.3. Bioaccumulative potential**

**Aluminium oxide (1344-28-1)**

Bioaccumulative potential	Bioaccumulation: No data available. Not established.
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**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

Other information : Avoid release to the environment.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Waste disposal recommendations : Remove to an authorized dump. Dispose in a safe manner in accordance with local/national regulations. Reuse or recycle following decontamination.  
 Additional information : Non hazardous waste.  
 Ecology - waste materials : Avoid release to the environment.  
 EURAL code : 16 03 04 - inorganic wastes other than those mentioned in 16 03 03

**SECTION 14****TRANSPORT INFORMATION**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

Not dangerous goods in terms of transport regulations

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Other information : No supplementary information available.

**14.6. Special precautions for user****14.6.1. Overland transport**

Limited quantities (ADR) : Not applicable

**14.6.2. Transport by sea**

Transport regulations (IMDG) : Not subject

**14.6.3. Air transport**

Transport regulations (IATA) : Not subject

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15****REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

VOC content : Not applicable

**15.1.2. National regulations**

Water hazard class (WGK) : nwg - non-hazardous to water

WGK remark : No water pollutant (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender)

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16****OTHER INFORMATION**

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.