



MATERIAL SAFETY DATA SHEET

PRODUCT NUMBER: 15 99 80-15 99 83

SECTION 1 PRODUCT IDENTIFICATION AND MANUFACTURE

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
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PRODUCT: Dry Powder Alpha

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

Symptoms/injuries after inhalation	:	Not expected to present a significant hazard under anticipated conditions of normal use. Irritation of the respiratory tract. Irritation of
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		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

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 : Gloves. Protective clothing. Dust formation: dust mask.

Protective equipment :
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 (treat) with an excess of water. Take off contaminated clothing and wash before reuse.

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 soap and water before eating, drinking or smoking. Use only outdoors or in a well-ventilated area. Use personal protective equipment as required. Container tightly closed.

7.2. Conditions for safe storage, including 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
Incompatible materials

Strong bases. Strong acids
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)

	Limit value (mg/m3)	1 mg/m3
Belgium	VME (mg/m3)	10 mg/m3
France	ACGIH TWA (mg/m3)	1 mg/m3
Italy – Portugal – USA ACGIH	WEL TWA (mg/m3)	10 mg/m3
United Kingdom		

8.2. Exposure controls

Appropriate engineering controls

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

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.

Hand protection

Protective gloves.



Eye protection	:	Chemical goggles or safety glasses.
Skin and 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
06/06/2014	:	EN (English)
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 ³
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

SECTION 10 STABILITY AND REACTIVITY PROPERTIES

10.1. Reactivity

No additional information available

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	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	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	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

Aluminium oxide (1344-28-1)

Persistence & 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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No REACH

Annex XVII restriction

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

content 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)

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 Annexes 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 wassergefahrdender

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

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None.