MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: METPREP LTD.
CURRIERS CLOSE
CHARTER AVENUE
COVENTRY CV4 8AW

TELEPHONE: PRODUCT INFORMATION: 024 7642 1222
FAX: 024 7642 1192

CHEMICAL NAME: Aluminium Oxide
PRODUCT: DRY POWDER GAMMA ALUMINA
PRODUCT NUMBERS: 15 99 84, 15 99 85

2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NATURE: Aluminium Oxide Powder

INGREDIENT (S): CAS NUMBER: %: HAZARD SYMBOL: R PHRASES:
Aluminium Oxide 1344-28-1 100

3. HAZARDS IDENTIFICATION

May cause irritation of respiratory tract and eyes

4. FIRST AID MEASURES

GENERAL INFORMATION: Remove contaminated or saturated clothing immediately.

INHALATION: Remove to fresh air. In case of irritation to respiratory system, seek medical attention.
SKIN: When contact with skin, rinse with soap and water.
EYE: Irrigate with eyewash solution or clear water, holding the eyelids apart, for at least 5 minutes. Obtain immediate medical attention.
INGESTION: Do not induce vomiting. Wash out mouth with water and give 200-300 ml (half a pint) of water to drink.

Obtain medical attention. Never give anything by mouth to an unconscious person. Call a doctor.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry Sand, foam, dry powder or CO₂. Water.
UNSUITABLE EXTINGUISHING MEDIA:
FIRE FIGHTING PROTECTIVE EQUIPMENT: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions.
FURTHER INFORMATION:

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Ensure adequate ventilation. Do not breathe the powder. Avoid contact with skin, eyes and clothing.
ENVIRONMENTAL PRECAUTIONS: Not a hazard to the environment.
METHODS OF CLEANING UP: Pick-up mechanically. Dispose of absorbed material in accordance with regulations.

7. HANDLING AND STORAGE
HANDLING: Provide exhaust ventilation if dust is formed. Suitable industrial vacuum cleaners or central exhaust ventilation equipment must be used for taking up dust.

STORAGE: Keep only in original container. Store in cool, dry place away from heat, sparks, flame and direct sunlight.

INDUSTRIAL HYGIENE PRACTICES: Wash face and hands thoroughly with the soap and water after use and before eating, drinking, smoking or applying cosmetics.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS:

<table>
<thead>
<tr>
<th>CAS No:</th>
<th>Material</th>
<th>Type</th>
<th>Value</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1344-28-1</td>
<td>Al</td>
<td></td>
<td>10 mg</td>
<td>m⁻³</td>
</tr>
</tbody>
</table>

ENGINEERING MEASURES: No special precautions required.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORS: Wear suitable respiratory protective equipment if exposure to levels above the occupational exposure limit is likely. A suitable mask with filter type A may be appropriate. In the event of formation of particularly high levels of dust a self-contained breathing apparatus may be appropriate.

EYE PROTECTION: Safety glasses or chemical splash goggles.

GLOVES: Wear suitable gloves. PVA/Polyethylene laminate and supported PVA gloves offer the best protection. Gloves should be changed regularly and if excessive exposure has occurred.

OTHER: Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Powder

COLOUR: White

ODOUR: None

PH: NA at 20°C

BOILING POINT: NA °C

MELTING POINT: >2000 °C

THERMAL DECOMPOSITION: NA °C

IGNITION TEMPERATURE: NA °C

VAPOUR PRESSURE: NA at 20°C

DENSITY: NA g/cm³

WATER SOLUBILITY: Insoluble

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None.

INCOMPATIBILITY (MATERIALS TO AVOID): None. Slightly soluble in acids and alcohols.

HAZARDOUS DECOMPOSITION PRODUCTS:

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: NA

ACUTE DERMAL TOXICITY:

EYE IRRITATION: Slight

SKIN IRRITATION: NA
SENSITISATION: May cause irritation of respiratory tract and eyes.

12. ECOLOGICAL INFORMATION

EXOTOXICITY EFFECTS: Insoluble, settles easily. Inert mineral product.

FURTHER INFORMATION ON ECOLOGY: None

13. DISPOSAL CONSIDERATIONS

PRODUCT: Can be eliminated with regular industrial wastes.

PACKAGING: Empty and possibly wash with water before recycling.

14. TRANSPORTATION

LAND TRANSPORT:
ADR
REGULATION: Not dangerous goods – full transport
RID:
REGULATION: Not dangerous goods – full transport
AIR TRANSPORT –
IATA CLASS:
REGULATION: Not dangerous goods – full transport
OCEAN TRANSPORT –
IMDG CLASS:
REGULATION: Not dangerous goods – full transport

15. REGULATORY INFORMATION

EC REGULATIONS –
EINECS: all chemical listed
EEC Classification:
Risk Phrases:
Safety Phrases:

HAZARDOUS COMPONENTS WHICH MUST BE LISTED ON THE LABEL:

NATIONAL LEGISLATION:

NOTIFICATION STATUS: EINECS Not Required
TSCA

16. ADDITIONAL INFORMATION

This data sheet was prepared in accordance with Directive 91/155/EEC.

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