

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

**Product name:** Reaction Tubes, Crucibles & Other Items made from Alumina Ceramic

**Catalogue no:** Various

**SDS reference no:** Alumin

**Brand:** OEA Labs

**EC index no(s):** 215-691-6

**REACH no:** The annual tonnage does not require registration.

**CAS no(s):** Al<sub>2</sub>O<sub>3</sub> [1344-28-1]

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**Identified uses:** Elemental analysis scientific instrumentation. Not for pharmaceutical, domestic or other uses.

### 1.3 Details of the supplier of the safety data sheet

**Company name:** OEA Laboratories Limited  
The Generator Quay House  
The Gallery, Kings Wharf  
The Quay, Exeter  
EX2 4AN,  
United Kingdom

**Telephone:** +44 (0)1579 384174

**Email:** sales@oealabs.com

### 1.4 Emergency telephone number

**Telephone:** +44 (0)1579 384174

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture according to Regulation (EC) No 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

### 2.2 Labelling elements according to Regulation (EC) No 1272/2008

**Pictogram(s):**

**Signal word:**

**Hazard statement(s):**

- Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

**Precautionary statement(s):**

Restricted to professional users.

### 2.2 Other hazards

Processing this article may produce dusts or fumes which are considered hazardous.

## SECTION 3. Composition/information of ingredients

### 3.1 Substances

**Synonyms:** Alumina

**Formula:** Al<sub>2</sub>O<sub>3</sub>

**Molecular weight:** 101.96 g/mol

**Components:**

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

**General advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**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.

## SECTION 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.

## SECTION 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.

## SECTION 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. Storage class (TRGS 510): Non Combustible Solids.

**7.3 Specific end uses**

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

## SECTION 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:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**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 N100 (US) or type P3 (EN 143) 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 such as NIOSH (US) or CEN (EU).

**Environmental protection:**

No data available.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Form:</b>	Multiform solid, granules, spheres, powder or fibres
<b>Colour:</b>	Buff to white
<b>Odour:</b>	No data available. No data available.
<b>Odour threshold:</b>	No data available.
<b>pH:</b>	9.4 - 10.1 at 20 °C
<b>Melting point:</b>	2,040 °C
<b>Boiling point:</b>	2,980 °C
<b>Flash point:</b>	No data available.
<b>Flammability solid/gas:</b>	The product is not flammable.
<b>Upper/lower flammability or explosive limits:</b>	No data available.
<b>Water solubility:</b>	Insoluble
<b>Autoignition temp:</b>	No data available.
<b>Decomp temperature:</b>	No data available.
<b>Explosive properties:</b>	No data available.
<b>Oxidising properties:</b>	The substance or mixture is not classified as oxidizing.

### 9.2 Other safety information

No data available.

## SECTION 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.

### 10.6 Hazardous decomposition products

In the event of fire: see section 5.

## SECTION 11. Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity:**

LD50 Oral - Rat - > 10,000 mg/kg (OECD Test Guideline 401)

**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.

**Carcinogenicity:**

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**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.

**Potential health effects - inhalation:**

No data available.

**Potential health effects - ingestion:**

No data available.

**Potential health effects - skin:**

No data available.

**Potential health effects - eyes:**

No data available.

**Signs and symptoms of exposure:**

No data available.

**Additional information:**

RTECS: BD1200000. Cough, chest pain, Difficulty in breathing, Gastrointestinal disturbance. Liver - Irregularities - Based on Human Evidence

## SECTION 12. Ecological information

### 12.1 Toxicity

**Toxicity to fish:** No toxicity at the limit of solubility.

**Toxicity to daphnia and other aquatic invertebrates:** No data available.

**Toxicity to algae:** No data available.

**Toxicity to bacteria:** No data available.

### 12.2 Persistence and degradability

No data available.

### 12.3 Bioaccumulative potential

Does not bioaccumulate.

### 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 data available.

## SECTION 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.

## SECTION 14. Transport information

### 14.1 UN number

**ADR/RID/IATA/IMDG:** Not dangerous goods

**14.2 UN proper shipping name**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.3 Transport hazard class(es)**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.4 Packaging group**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.5 Environmental hazards**

ADR/RID/IATA/IMDG: Not dangerous goods

**14.6 Special precautions for user**

Not dangerous goods

**14.7 Shipping quantities**

ADR LQ maximum: Not dangerous goods

ADR EQ code: Not dangerous goods

ADR EQ IP/pkg: Not dangerous goods

IATA LQ PInstruction: Not dangerous goods

IATA LQ IP/pkg: Not dangerous goods

IATA EQ code: Not dangerous goods

IATA EQ IP/pkg: Not dangerous goods

De minimus: Not dangerous goods

## SECTION 15. Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No 1907/2006

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

No data available.

**15.2 Chemical safety assessment**

For this product a chemical safety assessment was not carried out.

## SECTION 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. OEA Laboratories Limited shall not be held liable for any damage resulting from the handling or contact with the above product. See [www.oelabs.com](http://www.oelabs.com) for terms and conditions of sale.