

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): Al₂O₃ [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
Unit C2 Florence Road Business Park
Kelly Bray, Callington, Cornwall
PL17 8EX, United Kingdom

Telephone: +44 (0)1579 384174

Fax: +44 (0)1579 384174

Email: sales@oealabs.com

1.4 Emergency telephone number

Telephone: +44 (0)1579 384174, +44 (0) 1579 350212, +44 (0) 7811 102906

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: Al₂O₃

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

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