

SAFETY DATA SHEET

in accordance with Regulation (EC) no. 1907/2006 (REACH)

ALUMINIUM OXIDE POWDER



Date of Issue: 23-08-2022

Date of Revision:

Powder Number: LPP.K-00-04-16

Version: 2.0

SECTION 1: Identification of The Substance or Mixture and The Company/Undertaking

1.1. Product identification

Product type	Substance
EC no.	215-691-6
CAS no.	1344-28-1
REACH registration no.	01-2119529248-35
Product code	LPP.K-00-04-16
Gross formula	Al ₂ O ₃

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

1.2.1. Relevant identified uses

Specific industrial/professional use:	Industrial For professional use only
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1.2.2. Uses advised against

No additional information available

1.3. Details regarding the supplier of the safety data sheet

Titomic Limited
info@titomic.com
www.titomic.com

1.4. Emergency telephone number

Country	Organisation / Company	Address	Emergency tel. number
THE NETHERLANDS	National Poisons Information Center (NVIC) University Medical Centre (UMC) Utrecht, The National Poisons Information Centre (NVIC) provides information for doctors, veterinary surgeons, pharmacists and other medical professionals about the potential health effects and treatment options in cases of poisoning. The NVIC can be reached 24 hours a day, both by telephone and Internet.	P.O. Box 85500 3508 GA Utrecht	+31 30 274 88 88

SECTION 2: Hazard Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) no. 1272/2008 [CLP]

Not classified

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Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Harmful physical-chemical, health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) no. 1272/2008 [CLP]

Labelling not applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition of And Information About Ingredients

3.1. Substances

Name	Product identification	%	Classification as laid down in Directive 67/548/EEC
Aluminium oxide powder (Main constituent)	(CAS no.) 1344-28-1 (EC no.) 215-691-6 (REACH no.) 01-2119529248-35	100	Not classified
Aluminium oxide powder (Main constituent)	(CAS no.) 1344-28-1 (EC no.) 215-691-6 (REACH no.) 01-2119529248-35	100	Not classified

For total content 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

General first aid:	Never give anything by mouth to an unconscious person. If a person feels unwell, consult a physician (show the relevant label if possible).
First aid following substance inhalation:	Allow victim to breathe fresh air. Allow victim to rest.
First aid following contact with skin:	Remove soiled clothing and wash or shower skin with plenty of water (for 15 minutes). Consult a physician if necessary.
First aid following contact with eyes:	Rinse immediately with plenty of water. Seek medical assistance if pain or redness persists.

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4.1. Description of first aid measures

First aid following ingestion:	Rinse the mouth thoroughly with water. DO NOT induce vomiting. Consult a physician immediately.
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4.2. Main acute and delayed symptoms and effects

Symptoms/injuries:	Not considered a serious hazard if used under normal circumstances.
Symptoms/injuries following contact with skin:	May cause minor irritation.

4.3. Reporting the necessary immediate medical care and special treatment

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:	Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media:	Do not use a high-power water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard:	Not flammable. No immediate explosion hazard.
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5.3. Advice for firefighters

Fire precautions:	Avoid creating dust.
Extinguishing instructions:	Cool the exposed vessels by spraying with water or water mist. Exercise extreme caution when fighting a chemical fire. Avoid discharging fire extinguishing water into the environment.
Protection during firefighting:	Do not enter fire zone without suitable safety equipment/clothing, including protective breathing apparatus.

SECTION 6: Measures to be taken in the event of accidental release of the substance or mixture

6.1. Personal prevention measures, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures:	Evacuate personnel to a safe place.
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6.1.2. For emergency personnel

Protective equipment:	Provide cleaning personnel with suitable protection.
Emergency procedures:	Ventilate the area.

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6.2. Environmental precautions

Do not discharge into sewage or public waters. If pollution of lakes, rivers or sewage occurs, inform the responsible authorities in accordance with local regulations.

6.3. Methods and materials for containment and cleaning

Cleaning methods:

Sweep or scrape from the ground into suitable containers. Keep dust formation to a minimum. Store separately from other materials.

6.4. Reference to other sections

See section 13 for waste disposal after cleaning. See section 8 for use of personal protection equipment.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling of the substance or mixture

Additional hazards associated with handling:

Make sure there is adequate ventilation. Avoid contact with skin and eyes. Avoid creating dust.

Precautions for safe handling of the substance or mixture:

Wash hands and other exposed parts using gentle soap and water before eating, drinking, smoking or leaving the work environment. Make sure there is adequate ventilation in the handling area in order to prevent evaporation.

7.2. Safe storage conditions, including incompatible products

Storage conditions:

Store only in the original packaging in a cool, well-ventilated place. Keep containers closed when not in use. Store in a dry place.

Incompatible substances:

Strong alkalines. Strong acids.

Incompatible substances:

Remove all sources of ignition. Protect the product from direct sunlight.

7.3. Specific end use(s)

the product is for professional use only.

SECTION 8: Measures to control exposure/personal protection

8.1. Control parameters

No additional information available

8.2. Measures to control exposure

Suitable technical measures:

Handle in accordance with good industrial hygiene and safety practices. Emergency eye baths and safety showers should be installed in the vicinity of all exposure hazard areas. Provide the area with local drainage/outlet or general ventilation.

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
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8.2. Measures to control exposure

Personal protective equipment:	Avoid unnecessary exposure. Gloves. Safety goggles.  
Hand protection:	Since the product comprises several substances, the durability of the glove material cannot be calculated beforehand and must therefore be tested before use. Gloves must always be checked immediately after each and replaced if there are any signs of wear and tear or perforation. Chemically resistant gloves (in accordance with the European standard NF EN 374 or equivalent). The choice of suitable gloves depends not only on the material, but also on other quality characteristics, and varies from one manufacturer to another. The manufacturer can provide the exact penetration time; bear this in mind at all times.
Eye protection:	Chemical goggles or face shield.
Protection for the skin and body:	Wear suitable protective clothing.
Respiratory protection:	Suitable respiratory equipment for dust or mist should be used as airborne dust particles are created when handling this product.
Other information:	Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties.

9.1. Information about basic physical and chemical properties

Physical state:	Solid
Appearance:	Powder.
Colour:	white.
Odour:	odourless.
Odour threshold:	No data available
Ph:	No data available
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	2000 °C
Coagulation/freezing point:	No data available
Boiling point:	2980 °C
Flash point:	No data available
Auto-ignition temperature:	No data available
Thermolysis temperature:	No data available
Flammability (solid, gas):	Not flammable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available

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9.1. Information about basic physical and chemical properties

Relative density:	No data available
Solubility:	Product soluble in water.
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosion points	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable under normal handling and storage conditions.

10.3. Potentially hazardous reactions

Hazardous polymerisation: None.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Chemically incompatible materials

Ethylene oxide. Chlorine trifluoride.

10.6. Hazardous decomposition products

No known decomposition products.

SECTION 11: Toxological information

11.1. Information on toxicological effects

Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified Classification criteria are not met based on available data
Serious eye damage/irritation:	Not classified Classification criteria are not met based on available data
Respiratory or skin sensitisation:	Not classified Classification criteria are not met based on available data



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11.1. Information on toxicological effects

STOT-single exposure:	Not classified Classification criteria are not met based on available data
STOT-repeated exposure:	Not classified Classification criteria are not met based on available data
Reproduction toxicity:	Not classified Classification criteria are not met based on available data
STOT-single exposure:	Not classified Classification criteria are not met based on available data
STOT-repeated exposure:	Not classified Classification criteria are not met based on available data
Inhalation hazard:	Not classified Classification criteria are not met based on available data
Potential hazardous effects on human health and potential symptoms:	Classification criteria are not met based on available data

SECTION 12: Ecological information

12.1. Toxicity

Tin powder (7440-31-5)

No additional information available

12.2. Persistence and degradability

Aluminium oxide powder (1344-28-1)

Persistence and degradability: Not classified

12.3. Bioaccumulation

Aluminium oxide powder (1344-28-1)

Bioaccumulation: Not classified

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and zPzB assessments

No additional information available

12.6. Other adverse effects

Avoid discharge into the environment



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SECTION 13: Disposal instructions

13.1. Waste treatment methods	
Recommendations for waste disposal:	Dispose of safely and in accordance with local/national regulations.
Ecology - waste products:	Avoid discharge into the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA regulations.

14.1. UN number	
Not classified as hazardous according to transport legislation	
14.2. Correct shipping name in accordance with the UN Model Regulations	
Not applicable	
14.3. Transport hazards class	
Not applicable	
14.4. Packing group	
Not applicable	
14.5. Environmental hazards	
Other information:	No additional information available
14.6. Special precautions for the user	
14.6.1. Land transport	
No additional information available	
14.6.2. Sea transport	
No additional information available	
14.6.3. Air transport	
No additional information available	
14.6.4. Inland waterways transport	
No additional information available	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not applicable	



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SECTION 15: Regulations

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

15.1.1. EU regulations

No limitations in accordance with Annex XVII of REACH

15.1.2. National regulations

No additional information available

SECTION 16: Other Information

Amendments:	
Revision: *.	
Sources of data:	EC Regulation no. 1272/2008 OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF 16 December 2008 re. the classification, labelling and packing of substances and mixtures as amended and repealed in Regulation 67/548/EEC and 1999/45/EC and as amended in EC Regulation no. 1907/2006.
Other information:	REACH Declaration: All information is based on current knowledge. Consistency of the information listed in this Safety Data Sheet with the information in the Chemical Safety Report is considered to the extent available at the time of compilation (see version number and date of revision). EXCLUSION OF LIABILITY The information provided in this sheet has been gathered from sources which, to the best of our knowledge, are reliable. However, the information was provided without any express or implied regarding its correctness. Conditions regarding the handling, storage, use or disposal of the product fall beyond the scope of our control and also possibly beyond the scope of our knowledge. For this and other reasons, we shall not assume any responsibility for, and expressly disclaim liability for, any loss, damage or expense whatsoever resulting from the handling, storage, use or disposal of the product.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purpose of the health, safety and environmental aspects of its use. It should therefore not be regarded as a guarantee for any specific property of the product.