

SAFETY DATA SHEET

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

MIXTURE OF ALUMINIUM OXIDE POWDER - ALUMINIUM POWDER



Date of Issue: 19-08-2022

Date of Revision:

Powder Number: LPP.K-10-01

Version: 2.0

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

1.1. Product identification

Product type:	Mixture
Product code:	LPP.K-10-01

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]

Flam. Sol. 1 H228

Water-react. 2 H261

For total text of H phrases: see section 16

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

F; R11

F; R15

For total text of R phrases: see section 16

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Harmful physical-chemical, health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP):	 GHS02
Signal word (CLP):	Hazard
Hazard indication (CLP):	H228 - Flammable solid H261 - Flammable gases released when in contact with water
Safety recommendations (CLP):	P210 - Keep away from open fire and sparks. Do not smoke P223 - Avoid contact with water. P233 - Keep the packaging closed P241 - Use explosion-proof equipment P280 - Wear protective gloves, protective clothing and eye protection

2.3. Other hazards

No additional information available.

SECTION 3: Composition of And Information About Ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identification	%	Classification as laid down in Directive 67/548/EEC
Aluminium oxide powder (99.4% pure)	(CAS no.) 1344-28-1 (EC no.) 215-691-6 (REACH no.) 01-2119529248-35	60-70	Not classified
Aluminium powder (99.6% pure)	(CAS no.) 7429-90-5 (EC no.) 231-072-3 (EU Identification number) 013-002-00-1 (REACH no.) 01-2119529243-45	30-40	F; R11 F; R15

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For total content of R and H phrases: see section 16



Titomic USA - Headquarters
15091 AL Hwy 20
Madison, AL 35756



Titomic Australia
Ground Floor, 365 Ferntree Gully Road,
Mount Waverley, VIC 3149 Australia



Titomic Europe
Mars 14
8448 CP Heerenveen,
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 Info@titomic.com

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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. Brush loose particles from skin.
First aid following contact with eyes:	Rinse immediately with plenty of water. Seek medical assistance if pain or redness persists. Lift eyelids using fingers and flush the eyes with plenty of water.
First aid following ingestion:	Rinse the mouth thoroughly with water. DO NOT induce vomiting. Consult a physician immediately.

4.2. Main acute and delayed symptoms and effects

Symptoms/injuries:	Not considered a serious hazard if used under normal circumstances.
Symptoms/injuries following inhalation:	Can cause irritation of the airways. Shortness of breath. Coughing. Asthmatic symptoms.
Symptoms/injuries following contact with eyes:	Direct contact with the eyes is likely to cause 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:	Sand.
Unsuitable extinguishing media:	Do not use water jet. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard:	Flammable solid substance. Do not expose to heat.
Explosion hazard:	Can form a flammable/explosive vapour-air mixture.

5.3. Advice for firefighters

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.



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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

General measures:	Extinguish sources of ignition. Take special precautions to avoid static electricity charges. No open fire. Smoking prohibited.
6.1.1. For non-emergency personnel	
Emergency procedures:	Evacuate personnel to a safe place.
6.1.2. For emergency personnel	
Protective equipment:	Provide cleaning personnel with suitable protection.
Emergency procedures:	Ventilate the area.

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. Significant amounts of released materials: sweep spilled solids into sealable containers.
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6.4. Reference to other sections

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

SECTION 7: Handling and Storage

7.1. Precautions for safe handling of the substance or mixture

Additional hazards associated with handling:	Avoid contact with water to avoid violent reaction and possible flash fire. 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. No open fire. Smoking prohibited.

7.2. Safe storage conditions, including incompatible products

Technical measures:	Follow the correct earthing procedures in order to avoid static electricity. Earth storage and collection reservoirs.
Storage conditions:	Keep containers closed when not in use. Sources of heat. Direct sunlight. Store in a fireproof place. Keep away from moisture. Store in a dry, cool, and extremely well-ventilated place. Can disintegrate or explode under the influence of heat or on contact with incompatible products.
Incompatible substances:	Strong alkalines. Strong acids.

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7.2. Safe storage conditions, including incompatible products

Incompatible substances:	Remove all sources of ignition. Protect the product from direct sunlight. Avoid contact with air. Avoid contact with moisture.
Special instructions for packaging:	Store in sealed packaging.

7.3. Specific end use(s)



industrial.

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:	Do not exceed exposure limits (VLE/MAC). Keep away from sources of ignition. 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.
Personal protective equipment:	Avoid unnecessary exposure. Gloves. Safety goggles.  
Hand protection:	The manufacturer can provide the exact penetration time; bear this in mind at all times. Standard EN 374 - Gloves for protection against chemicals. Select glove material according to penetration times, rates of diffusion and the degradation. As a result of failed tests, no recommendation for glove material can be given for the product/ the preparation/ the chemical mixture. The choice of suitable gloves depends not only on the material, but also on other quality characteristics, and varies from one manufacturer to another.
Eye protection:	Safety goggles. Use protective eyewear that meets EN 166 requirements and which is designed to protect against dust particles.
Protection for the skin and body:	Wear suitable protective clothing.
Respiratory protection:	Respiratory protection is recommended if exposure carries a risk of inhalation. No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation.
Other information:	Do not eat, drink or smoke during use. Avoid contact with skin and eyes. Do not inhale the substance.

SECTION 9: Physical and Chemical Properties

9.1. Information about basic physical and chemical properties

Physical state:	Solid (Metal powder)
Colour:	Silver grey.
Odour:	odourless.
Odour threshold:	No data available

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9.1. Information about basic physical and chemical properties

pH:	No data available
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	No data available
Coagulation/freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Thermolysis temperature:	No data available
Flammability (solid, gas):	Flammable solid substance, flammable gases released on contact with water
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
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

Can form a flammable/explosive vapour-air mixture. The product is stable under normal handling and storage conditions.

10.3. Potentially hazardous reactions

Hazardous polymerisation: None.

10.4. Conditions to avoid

Air, damp.

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10.5. Chemically incompatible materials

Strong acids. Strong alkalines.

10.6. Hazardous decomposition products

Flammable hydrogen gas may be released on contact with metallic substances.

SECTION 11: Toxicological 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
Germ cell mutagenicity:	Not classified Classification criteria are not met based on available data
Carcinogenicity:	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

No additional information available

12.2. Persistence and degradability

Mixture of Aluminium oxide powder - Aluminium powder

Persistence and degradability	Not classified
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Aluminium oxide powder (1344-28-1)

Persistence and degradability	Not classified
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12.3. Bioaccumulation

Mixture of Aluminium oxide powder - Aluminium powder

Bioaccumulation	Not classified
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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

SECTION 13: Disposal Instructions

13.1. Waste treatment methods

Recommendations for waste disposal:

Dispose of safely and in accordance with local/national regulations. P501 - Dispose of content/packaging at a recognised waste disposal centre

Ecology - waste products:

Avoid discharge into the environment.

SECTION 14: Transport Information

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

14.1. UN number

UN no.:

Not classified

UN no. (IATA):

Not classified

UN no. (IMDG):

Not classified

UN no. (ADN):

Not classified

14.2. Correct shipping name in accordance with the UN Model Regulations

Correct shipping name:

METAL POWDER

14.3. Transport hazards class

Class (VN):

-

Classification code (VN):

-

Class (IATA):

-

Class (IMDG):

-

Class (ADN):

-

Hazard labels (UN):

-

14.4. Packing group

Packing group (UN):

-

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14.5. Environmental hazards

Other information:

No additional information available

14.6. Special precautions for the user

This material is tested according to UN criteria and is classified as non-flammable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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
Do not contain REACH substance candidate list

15.1.2. National regulations

No additional information available

15.2. Chemical safety evaluation

No chemical safety evaluation has been conducted.

SECTION 16: Other Information

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.



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Madison, AL 35756



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Flam. Sol. 1	Flammable solids, Category 1
Water-react. 2	Substances and mixtures which develop flammable gases when in contact with water, Categories 2
H228	Flammable solid
H261	Flammable gases released when in contact with water
R11	Highly flammable
R15	Forms extremely flammable gas when in contact with water
F	Highly flammable

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.



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