MSDS OF ALUMINUM INGOT

Section 1:Identification

Product Name: Aluminum ingot
HS Code: 76011090
Model: No data.
Trademark: No information.
Manufacturer/Supplier name: Nordtek Imexco Kft
Address: 1142 Budapest, Szőnyi út 21/a
Tel: +3613631447
Email:info@allinpackaging.com

Section 2: Hazard identification

Classification of substances or mixtures: GHS classification according to the series of specifications for classification and labeling of chemicals (GB30000.2-29), this product is not a hazardous substance or mixture. No significant harm to health or environment under normal use.
Hazard pictogram: None.
Signal word: None.
Hazard Description: None.
Precautionary statement: None.
Other hazards: Do not mix with water. The fire produces toxic smoke.

Section 3:Composition / information on ingredients

Chemical name	CAS No.	Composition(%)
Aluminum	7429-90-5	100

Section 4: First-aid measures

Skin contact: Wash skin and hair with running water (soap if possible). If there is irritation, consult a doctor.
Eye contact: Do not attempt to remove particles that adhere to or are embedded in the eyes. Immediately seek emergency medical assistance or send to hospital for treatment.
Inhalation: If smoke, aerosol or combustion products are inhaled, transfer the patient out of the contaminated area.
Ingestion: Generally not applicable.

Section 5: Fire-fighting measures

Suitable extinguishing medium: Sand and inert dry powder fire extinguishers shall be used to extinguish fires caused by metal dust. Do not use water, carbon dioxide (CO_2) or foam fire extinguishers to extinguish the fire.
Specific hazards: Although metal powder is generally considered to be nonflammable, it can burn when the powder is very fine and provides high energy. Explosive reaction may occur in contact with water. It can be ignited by friction, heat, sparks or open flame. Metal dust fire moves slowly, but the fire is strong and difficult to put out. It will burn under strong heat, and the burning dust shall not be disturbed. If the dust is stirred to form a cloud, it may cause an explosion. Avoid oxygen (gas) channeling to the large hot metal surface. When heated (heated), the container may explode. Dust and smoke can form explosive mixtures with air. After the fire is extinguished, it may rekindle. The gas produced in the fire may be toxic, corrosive or irritating. Do not use water or foam to extinguish the fire, as explosive hydrogen may be generated.
Special protection for firefighters: Wear self-contained positive breathing apparatus and full protective tools.

Section 6: Accidental release measures

Personal protective measures, protective equipment and emergency measures: Avoid inhaling dust and contact with skin and eyes. Wear protective clothing, gloves, safety goggles and dust mask.
Environmental precautions: Stop leakage when it is safe. Do not allow the product to enter the sewer.
Methods and materials for containment and cleaning up: Immediately remove all spills. Ensure the loading safety under the safety permission. Bundle / collect recyclable products. Place the remaining material in a covered container for disposal.

Section 7: Handing and storage

Safe operation: Provide appropriate exhaust equipment where dust is generated.
Safe storage: Store in a cool place. Keep the container closed and store in a dry and ventilated place.

Section 8: Exposure controls/personal protection

Occupational exposure limit:

Source	Component	Substance name	TWA	STEL	Peak value
Occupational exposure limit for hazardous factors in the workplace in China	Aluminum	Aluminum dust	4mg/m^3	No info	No info

Engineering control: When solid substances are handled in powder or crystal form, local ventilation system is required. The ventilation system shall be designed to prevent particles from accumulating or circulating in the workplace.

Personal protective measures

Respiratory protection:Respiratory protection is not required. To protect against dust damage, use a N95 (US) or P1 (EN 143) dust mask. Respirators use respirators and parts that have been tested and passed government standards.

Eye protection: No eye protection is required. Wear chemical safety glasses when dust is present.

Skin and body protection: Ordinary work clothes.

Hand protection: Wear appropriate protective gloves.

Other protection: Operate in accordance with good industrial hygiene and safety practices. Wash hands before rest and at the end of work.

Section 9: Physical and chemical properties

Appearance: Silver ingot solid.

Odor: Odourless.

Odor threshold: No data.

PH: Not applicable.

Melting point: 660.37 ℃.

Specific gravity: 2.71.

Boiling point: 2460 ℃.

Flash point: Not applicable.

Evaporation rate:Not applicable.

Flammability: No data available.

Upper and lower flammability limit or explosion limit: Not applicable.

Vapor pressure: Not applicable.

Vapor density: Not applicable.

Relative density: No data available.
Solubility: No data available.
Octanol / water partition coefficient: No data available.
Spontaneous combustion temperature: No data available.
Decomposition temperature: No data available.
Viscosity: No data available.

Section 10: Stability and reactivity

Stability: Stable under the recommended storage conditions.
Reactivity: Hazardous polymerization will not occur.
Taboos: Strong acid, strong oxidant, halogen/ halogenating agent.
Conditions to avoid contact: High temperature, heat source and ignition source.
Decomposition products: No harmful decomposition products will be produced under normal conditions. Combustion is the production of metal oxides, etc.

Section 11: Toxicological information

Acute toxicity: LD_{50} >2000 mg/kg Rat Oral
Inhalation: Mechanical treatment of massive metal (such as cutting and grinding) may cause upper respiratory tract irritation.
Ingestion: Massive metals and their alloys are "locked" into the metal lattice; Therefore, it is not easy to be bioavailable after ingestion.
Skin: Unhealed wounds, abraded or irritated skin should not be exposed to this substance.
Eyes: Metal dust in contact with eyes may cause mechanical abrasion or scratch of cornea - these damages are often minor. However, foreign bodies entering the eyeball can cause infection or permanent visual impairment.
Chronic toxicity or long-term toxic effect: Metal dust produced by various industrial processes will have a variety of potential hazards to health. Large particles larger than 5 microns will stimulate the nasal cavity and throat, while smaller particles can reduce lung function. Particles smaller than 1.5 microns can be encapsulated in the lung and cause further serious adverse effects on health according to the characteristics of the particles.
Other information: No data.

Section 12: Ecological information

Ecological Toxicity: No data available.
Biodegradability: No data available.
Bioaccumulative potential: No data available.
Mobility in soil: No data available.
Other harmful effects: No data available.

Section 13: Disposal considerations

Disposal method: First, recycle or recycle as much as possible, and then dispose according to relevant national and local regulations.

Waste precautions: The facilities and places for waste treatment must comply with the national occupational safety, health and environmental protection standards.

Section 14: Transportation information

UN No.: Goods not classified as dangerous goods.

ADR, IMDG, IATA

UN special transport Name: Goods that are not dangerous goods.

ADR, IMDG, IATA

Transportation hazard level: Goods that are not dangerous goods.

ADR, IMDG, IATA

Packing grade: Goods that are not dangerous goods.

ADR, IMDG, IATA

Hazardous environment: None.

Special precautions for users: None.

Section 15: Regulatory information

This safety technical instruction complies with the requirements of GB/T 17519-2013. GHS classification is determined according to the series of specifications for classification and labelling of chemicals (GB30000.2-29).

There is no information on the specific safety, health and environmental regulations / rules for this substance or mixture.

Chemical safety assessment: No chemical safety assessment has been conducted for this product.

Section 16: Other information

Issue Time:2022-05-22

Issue department: Technical department

Other information:

This MSDS is prepared based on the information we can collect. However, the data and the assessment of hazards and toxicity are not guaranteed. Before use, please investigate the hazard and toxicity information, and give priority to the laws and regulations of the organization, region and country using the product.

In consideration of safety, the product should be used immediately after purchase. Some new information or amendments will be added later. If the product is used far beyond the warranty period or you have any questions, please contact us. The warnings stated apply only to normal use. In case of special use, sufficient care must be taken in addition to ordinary safety measures. It should be noted that all chemicals have "unknown hazards and toxicity", which will vary greatly under different use and storage conditions. The product shall be used by experienced operators with professional knowledge or under the guidance of experts during the whole process from opening to storage to abandonment. Safe use conditions must be established based on the personal responsibility of each user.