Aluminium atomized Powder

Safety Data Sheet



According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2015/830)

Version: 4	Version date: 01/09/2019	Language: EN			
SECTION 1: Identification of the substance/mixture and of the company/undertaking					
1.1. Product identifier					
Product description MSDS code N°REACH	Aluminium atomized powderAlpowder01-2119529243-45-0203				
1.2. Relevant identified uses of the substance or mixture and uses advised against					
Relevant identified uses Uses advised against	 Powder metallurgy, solid prop aluminothermy, Catalysis. No use against-indicated ident 	ulsion, Adhesives, Refractories, alloys, coatings, ified.			
1.3.Details of the supplier of the safety data sheet					
Supplier	: Name: TOYAL EUROPE. Street: Route de Lescun. Postal code / City: 64490. ACC Telephone: +33 (0)5 59 98 35 Telefax: +33 (0)5 59 98 35 36. E-mail (competent person): Re	35.			
1.4Fmergency Telephone N	umber				

1.4Emergency Telephone Number

Ireland: +35 (0) 31 837 9964 (medical professionals) +35 (0) 31 809 2166 (public)

Malta: +356 2545 4030

United Kingdom: In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220

South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195

For all information in case of transport accident and other emergencies: Emergency Contact (24h/24) GBK/Infotrac ID 103679 : international (001) 352 323 3500

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is not classified as dangerous.

2.2. Label elements

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

Hazard pictograms	-
Signal word	-
Product identifiers	-
Hazard Statements	-
Additional information	-
Precautionary Statements - General	-
Precautionary Statements - Prevention	-
Precautionary Statements - Response	-
Precautionary Statements - Storage	-
Precautionary Statements - Disposal	-

2.3. Other hazards

Not available

SECTION 3: Composition/information on ingredients

3.1. Substances

This product does not contain any hazardous ingredients at or above regulated thresholds.

Not available

3.3. Remark

Not available

SECTION 4: First aid measures

4.1. Description of first aid measure	s				
General information		In case of accident or unwellness, seek medical advice immediately (show directions for use			
General mormation	·	or safety data sheet if possible).			
Following inhalation	:	In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical			
-		advice/attention if you feel unwell.			
Following skin contact	:	After contact with skin, wash immediately with plenty of water and soap. In case of skin			
		irritation, consult a physician.			
Following eye contact	:	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.			
Following ingestion		Rinse mouth thoroughly with water. Give nothing to eat or drink. Get medical			
i onowing ingestion	•	advice/attention if you feel unwell.			
Self-protection of the first aider	:	No information available.			
4.2. Most important symptoms and effects, both acute and delayed					
Symptoms	:	No information available.			
Effects	:	No information available.			
4.3. Indication of any immediate medical attention and special treatment needed					
Special treatment	:	Treat symptomatically.			
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	:	Dry sand. Carbon dioxide (CO2). Extinguishing dry powder (ABC or BC). Dry powder			
		extinguishing for metal (D).			
Unsuitable extinguishing media	:	Water. Alcohol foam. Halocarbons.			
5.2. Special hazards arising from the substance or mixture					

In case of contact with an acid or a base (or with water), aluminum powders react and potentially create hydrogen. Do not disperse dust and put it into suspension - due to the risk of the dust exploding.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Special protective equipment for firefighters

In case of fire: Wear suitable breathing apparatus and protective clothing.

5.4. Additional information

Not available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Remove persons to safety. Eliminate all ignition sources if safe to do so. Use personal protection equipment. Avoid generation of dust.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Do not vacuum residues with a non-explosion proof vacuum cleaner - there is a risk of the dust exploding. Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7. Personal protection equipment: see section 8. Disposal: see section 13.

6.5. Additional information

Not available

SECTION 7: Handling and Storage

Provide adequate ventilation. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Avoid generation of dust. Take precautionary measures against static discharges. Advices on general occupational hygiene

Do no eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep away from heat. Keep away from incompatible materials. Keep container tightly closed and in a well-ventilated place.

7.3. Specific end uses

No information available.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Occupational exposure limits

Substance	Value	Unit	Туре	
aluminium powder (stabilised)	4	mg/m³	Exposure limit (8 hours)	
CAS: 7429-90-5 (GB)				
aluminium powder (stabilised)	10	mg/m³	Exposure limit (8 hours)	
CAS: 7429-90-5 (GB)				
aluminium powder (stabilised)	1	mg/m³	Exposure limit (8 hours)	
CAS: 7429-90-5 (IE)				

8.2. Exposure controls

Appropriate engineering controls

Local ventilation may be necessary to prevent airborne contaminants exceed their exposure limits.

Personal protection equipment

Eye/face protection Skin protection	 Suitable eye protection: Safety glasses (EN166). Hand protection: Suitable gloves type: No information / Wear waterproof gloves and chemical resistant (standard EN374). The glove material must be selected depending on the breakthrough time and the permeation rate.
Respiratory protection	 Respiratory protection necessary at: Respiratory protection in accordance with EN149 minimum. Suitable masks should be worn if exposed to concentrations exceeding the permissible exposure limits. Suitable respiratory protection apparatus: Respiratory filter: FP2 / FFP3 (EN149: 2001).
Environmental exposure controls	

Avoid release to the environment.

8.3. Additional information

Not available

SECTION 9: Physical and chemical Properties

Physical state:	powder
Colour:	Silver Grey
Odour:	Odorless
Odour threshold:	Not available
PH:	Not available
Melting point/freezing point:	660 °C
Initial boiling point and boiling range:	2450 °C
Flash point:	°C
Evaporation rate:	Not available
Flammability:	Not available
Upper/lower flammability or explosive	Not available
limits:	
Vapour pressure:	Not available
Vapour density:	Not available
Relative density:	Not available
Solubility(ies):	Not available
Partition coefficient: n-octanol/water	Not available
(Log KOC):	

Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
Explosive properties:	Not available
Oxidising properties:	Not available

9.2. Other safety information

Not available

SECTION 10: Stability and Reactivity

10.1. Reactivity

Possible exothermic reaction on contact with incompatible materials.

10.2. Chemical stability

Stable under normal conditions of usage and storage. The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Under normal conditions of usage and storage, hazardous reactions will not occur.

10.4. Conditions to avoid

Keep away from heat. Keep away from sources of ignition - No smoking. Keep away from moisture.

10.5. Incompatible materials

Materials to avoid

Explosive reaction with: With potentially exothermic decomposition of hydrogen. Oxidants. Water. Halogenated hydrocarbons. Alcohols. Acids and Bases. Nitrates.

10.6. Hazardous decomposition products

Not available

10.7. Additional information

Not available

SECTION 11: Toxicological information

11.1.Acute oral toxicity
Data for mixture

Not available

Substances

Not available

11.2.Acute skin toxicity

Data for mixture

Not available

Substances Not available

11.3.Acute inhalation toxicity

Data for mixture				
Species	: Rat			
Sex	: OECD Gu	ideline 403 (Acute Inhalat	ion Toxicity)	
subendpoint	Results / Sex	Operator	Value	Units
LC50:	-	>	888	mg/m3
Substances			· · ·	
Not available				
11.4.Skin corrosion				
Data for mixture				
Not available				

Substances

Not available

11.5.Eye damage

Data for mixture

test Type

: OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conclusion

: non-irritating to the skin

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Substances Not available				
11.6.Skin sensitisation				
Data for mixture Not available Substances Not available				
11.7.STOT RE				
Data for mixture Not available Substances Not available				
11.8.STOT SE				
Data for mixture Not available Substances Not available				
11.9.Carcinogenicity				
Data for mixture Not available Substances Not available				
11.10.Reproductive and Developmental Toxicity				
Data for mixture Not available Substances Not available 11.11.genotoxicity				
Data for mixture Not available Substances Not available SECTION 12: Ecological information				
12.1. Toxicity				
Acute aquatic toxicity				
Substances <u>aluminium powder (stabilised) (CAS: 7429-90-5)</u> Animals / category : Fish Species : 96 test Duration : h				
subendpoint	Value	Units		
LC50:	2.6	-		
 12.2. Persistence and degradability 12.3. Bioaccumulative potential 12.4. Mobility in soil 12.5. Results of PBT and vPvB assessment 				
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.				
12.6. Other adverse effects				

Not available

12.7. Additional ecotoxicological information

Not available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal in accordance with local and national regulations. Waste Code List or proposed waste marking according to the EEC. Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV: No information.

13.2. Additional information

Not available

SECTION 14: Transport information

The product is not subject to ADR / ADN / RID / IMDG / ICAO.

SECTION 15: Regulatory information

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

Not available.

Not available

15.2. Chemical Safety Assessment

In view of the data on the harmlessness of the substance, no risk assessment has been conducted.

15.3. Additional information

Not available

SECTION 16: Other information

16.1. Indication of changes

1.1. Product identifier

16.2. Abbreviations and acronyms

ADN / ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways. VPvB: very persistent and very bioaccumulative substances. UN number: United Nations number. IMDG: International Maritime Dangerous Goods Code. No EC: European Commission Number. DPD Dangerous Preparation Directive. CLP: Classification, labeling and packaging. CAS: Chemical Abstract Service Number. ADR / RID: European Agreement concerning the International Carriage of Dangerous Goods by Road / Regulations concerning the international carriage of dangerous goods by rail. VOC: Volatile Organic Compounds. RoHS: Restriction of Hazardous Substances directive. PPE: Personal Protective Equipment. IATA: International Air Transport Association. PBT: persistent, bioaccumulative, toxic substances. UVCB: Substance of unknown or variable composition, complex reaction products or biological materials.

16.3. Key literature references and sources for data

No information available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Not available

16.6. Training advice

Not available

16.7. Additional information

Not available

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsability of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.