(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Version 1 Date of compilation: 21/01/2016

Version 3 (replaces version 2) Revision date: 10/02/2023

## NTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name:

Fax: E-mail:

Web:

ALUMINOTHERMIC POWDER

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

Aluminothermic welding material for welding procedures.

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

# Company:KLK Electro Materiales, S.L.U.Address:Camino de la Peñona 38B - Apdo 333City:33211 GijónProvince:AsturiasTelephone:+34 985 321850Fax:+34 985 309307

1.4 Emergency telephone number: +34 985 321850 (Only available during office hours; Monday-Friday; 08:00-14:00)

#### **SECTION 2: HAZARDS IDENTIFICATION.**

comercial@klk.es

www.klk.es

#### 2.1 Classification of the substance or mixture.

In accordance with Regulation (EC) No 1272/2008: Acute Tox. 4 : Harmful if swallowed. Aquatic Acute 1 : Very toxic to aquatic life. Aquatic Chronic 1 : Very toxic to aquatic life with long lasting effects. Eye Dam. 1 : Causes serious eye damage.

#### 2.2 Label elements.

#### Labelling in accordance with Regulation (EC) No 1272/2008: Pictograms:



Signal Word:

#### Danger

Hazard statements: H302 Harmful if swallowed. H318 Causes serious eye damage. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261 Avoid breathing dust.

P273 Avoid release to the environment.

P280 Wear protective gloves, eye protection and face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTRE and/or doctor if the person feels unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P370+P378 In case of fire: Use powder or CO2 extinguishing to extinguish it.



(in accordance with Regulation (EU) 2020/878)

## ALUMINOTHERMIC POWDER

Version 1 Date of compilation: 21/01/2016

Version 3 (replaces version 2) Revision date: 10/02/2023

Page 2 of 13 2023 Print date: 16/03/2023

Dispose of contents / container through an authorized waste manager, according to current regulations.

Contains: dicopper oxide, copper (I) oxide

#### 2.3 Other hazards.

P501

The mixture does not contain substances classified as PBT.

The mixture does not contain substances classified as vPvB.

The mixture does not contain any endocrine disrupting properties substances.

The product may have the following additional risks: Dust explosion hazards.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

#### 3.1 Substances.

Not Applicable.

#### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification - Regulation (EC) No 1272/2008		
Identifiers	Name	Concentrate	Classification	Specifics concentration limits and Acute toxicity estimate	
Index No: 029-002- 00-X CAS No: 1317-39-1 EC No: 215-270-7 Registration No: 01- 2119513794-36-XXXX	dicopper oxide, copper (I) oxide	24 - 75 %	Acute Tox. 4, H332 - Acute Tox. 4, H302 - Aquatic Acute 1, H400 (M=100) - Aquatic Chronic 1, H410 (M=10) - Eye Dam. 1, H318	Inhalation: ETA = 3.34 mg/l (ATP 17) (Dust/mist) Oral: ETA = 500 mg/kg pc (ATP 17)	
Index No: 013-002- 00-1 CAS No: 7429-90-5 EC No: 231-072-3 Registration No: 01- 2119529243-45-XXXX	[2] aluminium powder (stabilised)	10 - 25 %	Flam. Sol. 1, H228 - Water- react. 2, H261	-	
CAS No: 7440-50-8 EC No: 231-159-6 Registration No: 01- 2119480154-42-XXXX	[2] copper	2.5 - 25 %	Aquatic Chronic 2, H411	-	
CAS No: 7440-31-5 EC No: 231-141-8 Registration No: 01- 2119486474-28-XXXX	[2] tin	2.5 - 10 %	-	-	
CAS No: 7789-75-5 EC No: 232-188-7 Registration No: 01- 2119491248-30-XXXX	[2] calcium fluoride	2.5 - 10 %	-	-	

(\*) The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[2] Substance with a national workplace exposure limit (see section 8.1).

(in accordance with Regulation (EU) 2020/878)

## ALUMINOTHERMIC POWDER

Version 1 Date of compilation: 21/01/2016

Version 3 (replaces version 2) Revision date: 10/02/2023



#### **SECTION 4: FIRST AID MEASURES.**

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

#### Eve contact.

Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Dont let the person to rub the affected eye.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

Ingestion: Remove product from mouth. Drink 1-2 glasses of water or milk immediately. Consult a doctor.

#### 4.2 Most important symptoms and effects, both acute and delayed.

Corrosive Product, contact with eyes or skin can cause burns; ingestion or inhalation can cause internal damage, if this occurs immediate medical assistance is required.

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

Contact with eyes may cause irreversible damage.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Do not induce vomiting. If the person vomits, clear the respiratory tract.

#### **SECTION 5: FIREFIGHTING MEASURES.**

The product is NOT classified as flammable, in case of fire the following measures should be taken:

#### 5.1 Extinguishing media.

#### Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

#### Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

#### 5.2 Special hazards arising from the substance or mixture.

#### Special risks.

Exposure to combustion or decomposition products can be harmful to your health.

#### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Product residues and extinguishing media may contaminate the aquatic environment.

#### Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES.**

#### 6.1 Personal precautions, protective equipment and emergency procedures.

For exposure control and individual protection measures, see section 8.

(in accordance with Regulation (EU) 2020/878)

## ALUMINOTHERMIC POWDER

Version 1 Date of compilation: 21/01/2016 Version 3 (replaces version 2) Revis

Revision date: 10/02/2023



#### 6.2 Environmental precautions.

Product dangerous for the environment, in case of large spills or if the product contaminates lakes, rivers, or sewers, inform the responsible authorities according to local legislation. Prevent the contamination of drains, surface or subterranean waters, and the ground.

#### 6.3 Methods and material for containment and cleaning up.

Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.

Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

#### SECTION 7: HANDLING AND STORAGE.

#### 7.1 Precautions for safe handling.

For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

#### 7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 ° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Qualifying quant the applic	
Code	Description	Lower-tier requirements	Upper-tier requirements
E1	ENVIRONMENTAL HAZARDS - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1	100	200

#### 7.3 Specific end use(s).

Aluminothermic welding material for welding procedures.

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

#### 8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m <sup>3</sup>
		United Kingdom [1]	Eight hours		10 (inhalable dust) 10 (inhalable dust) 4 (respirable dust)
aluminium powder (stabilised)	7429-90-5		Short term		
		Éire [2]	Eight hours		1 (Respirable fraction)
				Short term	
			Eight hours		1 (Fração respirável )

(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Version 1 Date of compilation: 21/01/2016



Print date: 16/03/2023

Version 3 (replaces version 2)

Revision date: 10/02/2023

			Short term			
		United	Eight hours	0,2 (fume) 1 (dusts and mists (as Cu))		
		Kingdom [1]	Short term	2 (dusts and mists (as Cu))		
copper	7440-50-8	)-50-8 Éire [2]	Eight hours	0,2 (Fume) 1 (Dusts and mists)		
			Short term			
		Portugal [3]	Eight hours	0,2; 1		
			Short term			
tin	7440-31-5	Éire [2]	Eight hours	2 (Metal) 2 (Oxide inorganic) 0,1 (Organic)		
			Short term	0,2		
		Dortugal [2]	Eight hours	2; 2; 0,1		
	Portugal [3]				Short term	0,2

[1] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive. [2] According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

[3] De acordo com a Norma Portuguesa 1796 adotou pelo Instituto português de qualidade.

The product does NOT contain substances with Biological Limit Values.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
	DNEL	Inhalation, Chronic, Local effects	3,72
aluminium powder (stabilised)	(Workers)		(mg/m <sup>3</sup> )
CAS No: 7429-90-5	DNEL	Oral, Chronic, Systemic effects	3,95
EC No: 231-072-3	(Consumers)	-	(mg/kg
	-		pc/day)
tin	DNEL	Inhalation, Chronic, Systemic effects	11,75
CAS No: 7440-31-5	(Workers)		(mg/m <sup>3</sup> )
EC No: 231-141-8	. ,		
calcium fluoride	DNEL	Inhalation, Chronic, Systemic effects	5 (mg/m <sup>3</sup> )
CAS No: 7789-75-5	(Workers)		
EC No: 232-188-7	. ,		

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated. DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
aluminium powder (stabilised)	STP	20 (mg/L)
CAS No: 7429-90-5		
EC No: 231-072-3		

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Version 1 Date of compilation: 21/01/2016



Version 3 (replaces version 2)

Revision date: 10/02/2023

#### 8.2 Exposure controls.

#### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %		
Uses:	Aluminothermic welding material for welding procedures.		
Breathing protecti	on:		
PPE:	Particle filter mask		
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth and chin.		
CEN standards:	EN 149		
Maintenance:	Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.		
Observations:	Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment.		
Filter Type needed:	P2		
Hand protection:			
PPE: Characteristics:	Protective gloves against chemicals. «CE» marking, category III.		
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420		
Maintenance:	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.		
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.		
Material:	Breakthrough time (min.): > 480 Material thickness (mm): 0,35		
Eye protection:			
PPE: Characteristics:	Protective goggles against particle impacts. «CE» marking, category II. Eye protector against dust and smoke.		
CEN standards:	EN 165, EN 166, EN 167, EN 168		
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.		
Observations:	Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.		
Skin protection:			
PPE:	Protective clothing.		
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.		
CEN standards:	EN 340		
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.		
Observations:	The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use.		
PPE:	Work footwear.		
Characteristics: CEN standards:	«CE» marking, category II. EN ISO 13287, EN 20347		
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.		
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident		

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**

#### 9.1 Information on basic physical and chemical properties.

Physical state: Solid in the form granular Colour: Light grey Odour: Odourless

(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Page 7 of 13 Print date: 16/03/2023

Version 1 Date of compilation: 21/01/2016 Version 3 (replaces version 2) Revision date: 10/02/2023

Odour threshold: Not applicable (Not relevant for this type of product) Melting point: Not applicable (Not relevant for this type of product) Freezing point: Not available (See freezing point of components). Boiling point or initial boiling point and boiling range: Not applicable (Not relevant for this type of product) Flammability: It is not a readily flammable solid. (Pre-screening test as part of the procedure described in Part III, subsection 33.2.1 of the UN Manual of Tests and Criteria.) Lower explosion limit: Not applicable (Not relevant for this type of product) Upper explosion limit: Not applicable (Not relevant for this type of product) Flash point: Not applicable (Not relevant for this type of product) Auto-ignition temperature: Not applicable (Not relevant for this type of product) Decomposition temperature: Not applicable (Not relevant for this type of product) pH: Not applicable (Substance/mixture is non-soluble (in water)). Kinematic viscosity: Not applicable (Not relevant for this type of product) Solubility: Not applicable (Not relevant for this type of product) Hydrosolubility: Not applicable (Not relevant for this type of product) Liposolubility: Not applicable (Not relevant for this type of product) Partition coefficient n-octanol/water (log value): Not applicable (Not relevant for this type of product) Vapour pressure: Not applicable (Not relevant for this type of product) Absolute density: Not applicable (Not relevant for this type of product) Relative density: Not applicable (Not relevant for this type of product) Bulk density: 2.33 g/ml (laboratory measurement in test tube) Relative vapour density: Not applicable (Not relevant for this type of product) Particle characteristics: Not applicable (Not relevant for this type of product)

#### 9.2 Other information

Other safety characteristics

Viscosity: Not applicable (Not relevant for this type of product) Dropping point: Not applicable (Not relevant for this type of product) Blink: Not applicable (Not relevant for this type of product) % Solids: Not applicable (Not relevant for this type of product)

#### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

Solid reactant, avoid contact with water, heat and sources of ignition.

#### 10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

#### 10.3 Possibility of hazardous reactions.

It may be a highly exothermic reaction and reach temperatures> 1000 ° C.

#### 10.4 Conditions to avoid.

Avoid any improper handling. -heat -sparks

#### 10.5 Incompatible materials.

Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

#### 10.6 Hazardous decomposition products.

No decomposition if used for the intended uses.

#### SECTION 11: TOXICOLOGICAL INFORMATION.

11.1 Information on hazard classes as defined in Regulation (EC) N $^{\circ}$  1272/2008.

Splatters in the eyes can cause irritation and reversible damage.

(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Version 1 Date of compilation: 21/01/2016 Version 3 (replaces version 2) Revision date: 10/02/2023



Toxicological information about the substances present in the composition.

		Acute toxicity				
Name	Туре	Test	Kind	Value		
	Oral	LD50	Rat	1340 mg/kg pc [1]		
dicopper oxide, copper (I) oxide	Dermal	LD50	report, 1984. Rat	>2000 mg/kg pc [1]		
CAS No: 1317-39-1 EC No: 215-270-7	Inhalation	[1] study r	report, 1988.			
		LD50	Rat	> 10000 mg/kg pc [1]		
aluminium powder (stabilised)	Oral	[1] Study Toxicity)	report, 1969.	OECD Guideline 401 (Acute Oral		
	Dermal					
		LC50	Rat	> 0.888 mg/L air (analytical) (4 h) [1]		
CAS No: 7429-90-5 EC No: 231-072-3	Inhalation	Comparati	ve inhalation ha	J Appl Toxicol 693: 197-209. 1986. azards of aluminium and brass Ilmonary lavage as an indicator of		
	Oral	LD50	Rat report 1994	>2000 mg/kg pc [1]		
in Dermal		LD50	Rat	>2000 mg/kg pc [1]		
	Inhalation	LC50	Rat	>4.75 mg/L air (analytical) (4h) [1]		
CAS No: 7440-31-5 EC No: 231-141-8		[1] study r	report, 2009			

a) acute toxicity;

Product classified:

Acute toxicity (Oral), Category 4: Harmful if swallowed.

Acute Toxicity Estimate (ATE): Mixtures: ATE (Oral) = 769 mg/kg

b) skin corrosion/irritation; Not conclusive data for classification.

c) serious eye damage/irritation; Product classified: Serious eye damage, Category 1: Causes serious eye damage.

d) respiratory or skin sensitisation; Not conclusive data for classification.

e) germ cell mutagenicity; Not conclusive data for classification.

f) carcinogenicity; Not conclusive data for classification.

g) reproductive toxicity; Not conclusive data for classification.

h) STOT-single exposure; Not conclusive data for classification.

(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Version 1 Date of compilation: 21/01/2016 Version 3 (replaces version 2) Revisi

Revision date: 10/02/2023



i) STOT-repeated exposure; Not conclusive data for classification.

j) aspiration hazard; Not conclusive data for classification.

#### 11.2 Information on other hazards.

#### **Endocrine disrupting properties**

This product does not contain components with endocrine-disrupting properties with effects on human health. **Other information** 

There is no information available on other adverse health effects.

#### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

Name	Ecotoxicity				
Name	Туре	Test	Kind	Value	
	Fish	LC50	Oncorhynchus mykiss	28.9 µg/L (96h)	
dicopper oxide, copper (I) oxide	Aquatic	LC50	Ceriodaphnia dubia	14 µg/L (48h) [1]	
	invertebrates	[1] standar USEPA, 19		iodaphnia (method 1002.0	
CAS No: 1317-39-1 EC No: 215-270-7	Aquatic plants				
	Fish		Lepomis cyanellus Pimephales promelas	>50 mg/L (96h) 35 mg/L (96 h) [1]	
aluminium powder (stabilised)		Fathead m		metals and one organic to promelas) and Daphnia	
	Aquatic invertebrates	EC50 NOEC	Ceriodaphnia dubia Daphnia magna	1.9 mg/L [1] 0.076 mg/L (21 d)	
			nental result		
CAS No: 7429-90-5 EC No: 231-072-3	Aquatic plants	NOEC	Lemna minor	>45.7 mg/L (96 h)	

#### 12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present. No information is available on the degradability of the substances present. No information is available about persistence and degradability of the product.

#### 12.3 Bioaccumulative potential.

No information is available regarding the bioaccumulation of the substances present.

#### 12.4 Mobility in soil.

No information is available about the mobility in soil. The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

#### 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

(in accordance with Regulation (EU) 2020/878)

## **ALUMINOTHERMIC POWDER**

Version 1 Date of compilation: 21/01/2016

Version 3 (replaces version 2) Revision date: 10/02/2023



#### 12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

#### 12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

#### SECTION 13: DISPOSAL CONSIDERATIONS.

#### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue: 10 WASTES FROM THERMAL PROCESSES 10 08 wastes from other non-ferrous thermal metallurgy 10 08 04 particulates and dust

Method of treatment according to Directive 2008/98/EC: Recovery R4 Recycling/reclamation of metals and metal compounds

#### SECTION 14: TRANSPORT INFORMATION.

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

Land: Transport by road: ADR, Transport by rail: RID. Transport documentation: Consignment note and written instructions Sea: Transport by ship: IMDG. Transport documentation: Bill of lading Air: Transport by plane: ICAO/IATA. Transport document: Airway bill.

#### 14.1 UN number or ID number.

UN No: UN3077 (See 14.6)

#### 14.2 UN proper shipping name.

Description: ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS DICOPPER OXIDE COPPER (I) OXIDE / COPPER), 9, PG III, (-) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS DICOPPER OXIDE COPPER (I) OXIDE / COPPER), 9, PG III, MARINE POLLUTANT ICAO/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS DICOPPER OXIDE COPPER (I) OXIDE / COPPER), 9, PG III (See 14.6)

14.3 Transport hazard class(es).

Class(es): 9 (See 14.6)

**14.4 Packing group.** Packing group: III

(See 14.6)

(in accordance with Regulation (EU) 2020/878)

## ALUMINOTHERMIC POWDER

Version 1 Date of compilation: 21/01/2016 Version 3 (replaces version 2) Revision date: 10/02/2023



14.5 Environmental hazards.



Dangerous for the environment Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-A,S-F (See 14.6)

#### 14.6 Special precautions for user.

ADR / RID: exempt according to special provision 375, because the containers comply with the general packaging requirements and do not exceed 5 kg of net quantity per container.

IMDG: exempt according to 2.10.2.7 of the IMDG Code, because the containers comply with the general packaging requirements and do not exceed 5 kg of quantity per container.

IATA / ICAO: exempt according to special provision A197, because the containers comply with the general packaging requirements and do not exceed 5 kg of net quantity per container.

#### 14.7 Maritime transport in bulk according to IMO instruments.

The product is not transported in bulk.

#### SECTION 15: REGULATORY INFORMATION.

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): E1

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

## Information on Annex I and Annex II of Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 20 2019 on the marketing and use of explosives precursors:

CAS No	Name	Annex
7429-90-5	aluminium powder (stabilised)	II
Anness Is Destricted symplectic second symplectic		

Annex I: Restricted explosives precursor.

Annex II: Reportable explosives precursors.

#### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **SECTION 16: OTHER INFORMATION.**

Complete text of the H phrases that appear in section 3:

- H261 In contact with water releases flammable gases.
- H302 Harmful if swallowed.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

(in accordance with Regulation (EU) 2020/878)

## ALUMINOTHERMIC POWDER

Version 1 Date of compilation: 21/01/2016 Version 3 (replaces version 2) Revision date: 10/02/2023



Classification codes:

Acute Tox. 4 : Acute toxicity (Inhalation), Category 4 Acute Tox. 4 : Acute toxicity (Oral), Category 4 Aquatic Acute 1 : Acute toxicity to the aquatic environment, Category 1 Aquatic Chronic 1 : Chronic effect to the aquatic environment, Category 1 Aquatic Chronic 2 : Chronic effect to the aquatic environment, Category 2 Eye Dam. 1 : Serious eye damage, Category 1 Flam. Sol. 1 : Flammable solid, Category 1 Water-react. 2 : Substances and mixtures, which in contact with water, emit flammable gases, Category 2

Changes regarding to the previous version:

- Change in product identifier (SECTION 1.1)
- Change in the hazard classification (SECTION 2.1).
- Deletion of precautionary statements/indications of danger/pictograms/warning word (SECTION 2.2).
- Added precautionary statements/hazard statements/pictograms/warning word (SECTION 2.2).
- Added new text (SECTION 2.3).
- Modifications in the first aid measures (SECTION 4.1).
- Modification in the firefighting measures (SECTION 5.2).
- Modifications in the accidental release measures (SECTION 6.1).
- Modification of exposure data (SECTION 8.1).
- Modifications of the personal protective equipment (SECTION 8.2).
- Modification in the values of the physical and chemical properties (SECTION 9).
- Change in the hazard classification (SECTION 11.1).
- Added new text (SECTION 11.2).
- New section (SECTION 12.6).
- Modification of the classification ADR/IMDG/ICAO/IATA/RID (SECTION 14).
- Legislative changes (SECTION 15.1).
- Addition of abbreviations and acronyms (SECTION 16).

## Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Physical hazards	On basis of test data
Health hazards	Calculation method
Environmental hazards	Calculation method

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Risk classification system NFPA 704:



Abbreviations and acronyms used:

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road. CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

(in accordance with Regulation (EU) 2020/878)

## ALUMINOTHERMIC POWDER

Page 13 of 13 Print date: 16/03/2023

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- DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.
- EC50: Half maximal effective concentration.
- PPE: Personal protection equipment.
- IATA: International Air Transport Association.
- ICAO: International Civil Aviation Organization.
- IMDG: International Maritime Code for Dangerous Goods.
- LC50: Lethal concentration, 50%.
- LD50: Lethal dose, 50%.
- PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.
- RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data: http://eur-lex.europa.eu/homepage.html http://echa.europa.eu/ Regulation (EU) 2020/878. Regulation (EC) No 1907/2006. Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemical substances and mixtures (REACH).

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.