

ALUMINIUM

Page: 1/9

Revision nr: 3

Issue date: 20/03/2018

Supersedes: 02/02/2011

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. **Product identifier**

Product form

Substance

Trade name/designation

: ALUMINIUM

Chemical name

Aluminium

EC-No.

: 231-072-3

CAS-No.

7429-90-5

REACH registration No

: 01-2119529243-45

Product group

: Trade product

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

Relevant identified uses 1,2.1.

Use of the substance/mixture

: Alloy,

particulate.

Powder,

Article, Recycling,

Welding,

Spraying,

Packaging material,

Molten form,

Coating .

1.2.2. Uses advised against

No data available

Details of the supplier of the safety data sheet 1.3.

Trafigura Ventures V.B.V. Evert van de Beekstraat 1-82 The Base, Tower B - 5th Floor 1118 CL Schiphol - The Netherlands T +31 20 504 1800

TrafiguraReach@trafigura.com

Emergency telephone number

Emergency number

: +32 3 575 03 30

This telephone number is available 24 hours per day, 7 days per week.

Country	Official advisory body	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	+353 1 809 21 66 (public, 8am - 10pm, 7/7) +353 01 809 2566 (Professionals, 24/7)
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0844 892 0111 (UK only, 24/7, healthcare professionals only)

SECTION 2: Hazards identification

Classification of the substance or mixture

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



ALUMINIUM

Page: 2/9

Revision nr: 3

Issue date: 20/03/2018

Supersedes: 02/02/2011

2.2. Label elements

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

Not applicable.

2.3. Other hazards

Risk of dust explosion. Other hazards

SECTION 3: Composition/information on ingredients

3.1. **Substances**

: ALUMINIUM Substance name : 7429-90-5 CAS-No. : 231-072-3 EC-No.

Substance name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium	(CAS-No.) 7429-90-5 (EC-No.) 231-072-3 (EC Index) 013-002-00-1	>= 95	Water-react. 2, H261 Flam. Sol. 1, H228

Full text of H-statements: see section 16

3.2. **Mixtures**

Not applicable

Eyes contact

SECTION 4: First aid measures

Description of first aid measures

: Never give anything by mouth to an unconscious person. Show this safety data Additional advice

sheet to the doctor in attendance. Treat symptomatically.

: Keep at rest. Provide fresh air. In case of doubt or persistent symptoms, consult Inhalation

always a physician.

: Wash skin with plenty of water. In case of doubt or persistent symptoms, consult Skin contact always a physician.

> : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

: Rinse mouth. In case of doubt or persistent symptoms, consult always a physician. Ingestion

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

: as offered : This product has no known adverse effect on human health. May be Inhalation

irritating. AFTER INHALATION OF DUST:

: No adverse effects are expected. Skin contact

: No adverse effects are expected. Dust may cause painful eye irritation and tearing. Eyes contact

: No adverse effects are expected. Ingestion

Indication of any immediate medical attention and special treatment needed

No data available



ALUMINIUM

Page: 3 / 9

Revision nr: 3

Issue date : 20/03/2018

Supersedes: 02/02/2011

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Solid form : Co-ordinate fire-fighting measures to the fire surroundings, powdered

form : extinguishing powder (Type D). Dry sand :

Unsuitable extinguishing media

Strong water jet. Halogenated compounds.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In molten state: Reacts violently with water, metal oxides. Melting alone may cause steam explosion on contact with water. Hazardous decomposition products AIOx. Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

5.3. Advice for firefighters

Firefighting instructions

Use personal protective equipment as required. In case of fire: Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

For non-emergency personnel

Use personal protective equipment as required. Reference to other sections: 8. Provide adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Collect in closed and suitable containers for disposal. Dispose of contaminated materials in accordance with current regulations.

6.4. Reference to other sections

No data available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid dust formation. Provide adequate ventilation. During handling operations: Do not breathe vapours/dust.

: Keep good industrial hygiene.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

Hygiene measures

: Keep container tightly closed in a cool, well-ventilated place. Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

TRAFIGURA

SAFETY DATA SHEET

ALUMINIUM

Page: 4/9

Revision nr : 3

Issue date : 20/03/2018

Supersedes: 02/02/2011

Austria	MAK (mg/m³)	10 mg/m³ (inhalable fraction)	
Austria	MAK Short time value (mg/m³)	20 mg/m³ (inhalable fraction)	
Belgium	Limit value (mg/m³)	1 mg/m³	
Bulgaria	OEL TWA (mg/m³)	10 mg/m³ (metal dust) 1,5 mg/m³ (respirable fraction)	
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)	
Czech Republic	Expoziční limity (PEL) (mg/m³)	10 mg/m³ (dust)	
Denmark	Grænseværdie (langvarig) (mg/m³)	5 mg/m³ (dust, fume and powder, total) 2 mg/m³ (dust and powder, respirable)	
Estonia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)	
France	VME (mg/m³)	10 mg/m³ (metal) 5 mg/m³ (dust)	
Greece	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)	
Hungary	AK-érték	6 mg/m³ (respirable dust)	
Ireland	OEL (8 hours ref) (mg/m³)	1 mg/m³ (respirable fraction)	
Ireland	OEL (15 min ref) (mg/m3)	3 mg/m³ (calculated-respirable dust)	
Latvia	OEL TWA (mg/m³)	2 mg/m³	
Lithuania	IPRV (mg/m³)	5 mg/m³ (inhalable fraction) 2 mg/m³ (respirable fraction) 1 mg/m³	
Poland	NDS (mg/m³)	2,5 mg/m³ (inhalable fraction) 1,2 mg/m³ (respirable fraction)	
Portugal	OEL TWA (mg/m³)	10 mg/m³ (metal dust)	
Romania	OEL TWA (mg/m³)	3 mg/m³ (dust) 1 mg/m³ (fume)	
Romania	OEL STEL (mg/m³)	10 mg/m³ (dust) 3 mg/m³ (fume)	
Slovakia	NPHV (priemerná) (mg/m³)	1,5 mg/m³ (metal) 6 mg/m³ (total aerosol)	
Spain	VLA-ED (mg/m³)	10 mg/m³ (dust)	
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust) 2 mg/m³ (respirable dust)	
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ (inhalable dust) 4 mg/m³ (respirable dust)	
United Kingdom	WEL STEL (mg/m³)	30 mg/m³ (calculated-inhalable dust) 12 mg/m³ (calculated-respirable dust)	
Norway	Grenseverdier (AN) (mg/m³)	5 mg/m³ (pyrotechnical-powder)	
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m³ (pyrotechnical, value calculated- powder)	
Switzerland	MAK (mg/m³)	3 mg/m³ (respirable dust)	
Australia	TWA (mg/m³)	10 mg/m³ (dust) 5 mg/m³ (welding fume)	



ALUMINIUM

Page: 5 / 9

Revision nr: 3

Issue date : 20/03/2018

Supersedes: 02/02/2011

Aluminium (7429-90)-5)	
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA - OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

ALUMINIUM (7429-90-5)	
DNEL/DMEL (workers)	
Long-term - local effects, inhalation	3,72 mg/m³
DNEL/DMEL (general population)	
Long-term - systemic effects,oral	3,95 mg/kg bodyweight/day
PNEC (STP)	
PNEC sewage treatment plant	(factor 10) 20 mg/l

8.2. Exposure controls

Engineering measure(s)

Use only in area provided with appropriate exhaust ventilation. Emergency eye wash

fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use adequate ventilation and/or engineering controls in high

temperature processing to prevent exposure to vapours.

Hand protection : Not required for normal conditions of use . Protective gloves (EN 388, EN 407)

Eye protection Not required for normal conditions of use . Safety glasses with side-shields (EN 166,

EN 407)

· No data available

Body protection Overalls, apron and boots recommended. The melted product can cause severe

burns. Flame-retardant protective clothing

Respiratory protection Not required for normal conditions of use . Avoid dust formation. In the case of

respirable dust and/or fumes, use self-contained breathing apparatus. (EN 137). Effective dust mask (EN 149). Full face mask (EN 136) (EN 136). Half-face mask

(DIN EN 140) (EN 140). Filter type: P (EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Solid.

Colour : No data available.
Odour threshold : No data available
PH : Not applicable
Relative evaporation rate (butylacetate=1) : No data available

Melting / freezing point ~ 660 °C

Vanour deneity

Freezing point : No data available

Initial boiling point and boiling range : ~ 2467 °C

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available



ALUMINIUM

Page: 6 / 9

Revision nr: 3

Issue date : 20/03/2018

Supersedes: 02/02/2011

? ~ 2,702 g/cm³ (20°C) Density : No data available Solubility : No data available Partition coefficient n-octanol/water : No data available Kinematic viscosity No data available Dynamic viscosity No data available Explosive properties : Not applicable. Oxidising properties : Not applicable Explosive limits

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reference to other sections: 10.5.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Exposure to moisture.

10.5. Incompatible materials

Incompatible with acids and bases. Oxidising agent .

10.6. Hazardous decomposition products

AlOx.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Not classified

pH: Not applicable

Serious eye damage/irritation : Not classified

pH: Not applicable

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Carcinogenicity : Not classified Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

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ALUMINIUM

Page: 7/9

Revision nr: 3

Issue date: 20/03/2018

Supersedes: 02/02/2011

12.2. Persistence and degradability

ALUMINIUM (7429-90-5) No data is available on the product itself. Persistence and degradability

Bioaccumulative potential 12.3.

No data available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal recommendations

: Dispose of contaminated materials in accordance with current regulations. Do not

allow to enter into surface water or drains.

75/442/EEC, 91/689/EEC)

European waste catalogue (2001/573/EC, : Waste codes should be assigned by the user, preferably in discussion with the waste

disposal authorities.

SECTION 14: Transport information

as with ADD / DID / IMDG / IATA / ADN

ADR	IMDG IMDG / IATA / ADI	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper s	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport h	azard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gro	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
	ntal hazards			
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	No s	upplementary information	available	

Special precautions for user 14.6.

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available



ALUMINIUM

Page: 8/9 Revision nr: 3

Issue date: 20/03/2018

Supersedes: 02/02/2011

- Inland waterway transport

No data available

- Rail transport

No data available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions ALUMINIUM is not on the REACH Candidate List ALUMINIUM is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

: Water hazard class (WGK) nwg, Non-hazardous to water (KBwS-Beschluss; ID No. Reference to AwSV

Immission Control Act - 12.BlmSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de

voortplanting giftige stoffen -Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling : The substance is not listed

Chemical safety assessment

SECTION 16: Other information

Indication of changes:

1	Modified	
15	Modified	
16	Modified	

: European Chemicals Bureau. Sources of key data used to compile the



ALUMINIUM

Page: 9 / 9

Revision nr: 3

Issue date: 20/03/2018

Supersedes: 02/02/2011

Full text of H- and EUH-statements:

Flam. Sol. 1	Flammable solids, Hazard Category 1	
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 2	
H228	Flammable solid	
H261	In contact with water releases flammable gases.	

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Classification according to Regulation (EC) No. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP]

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