

according to Regulation (EC) No. 1907/2006

Revision Date 20-Feb-2024 Revision Number 3

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

#### 1.1. Product identifier

Product Description: <u>Magnesium Aluminum Zinc plate, alloy AZ31B</u>

Cat No. : 1406

Molecular Formula Mg:Al:Zn; 96:3:1 wt%

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

Recommended Use Laboratory chemicals. Uses advised against No Information available

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

Company

Thermo Fisher (Kandel) GmbH

Erlenbachweg 2, 76870 Kandel, Germany

Tel: +49 (0) 721 84007 280 Fax: +49 (0) 721 84007 300

**Swiss distributor -** Fisher Scientific AG Neuhofstrasse 11, CH 4153 Reinach

Tel: +41 (0) 56 618 41 11

https://www.fishersci.ch/ch/en/customer-help-

support/forms/email-us.html

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

customers in Switzerland:

Tox Info Suisse Emergency Number: 145 (24hr)

Tox Info Suisse: +41-44 251 51 51 (Emergency number from abroad)

Chemtrec (24h) Toll-Free: 0800 564 402 Chemtrec Local: +41-43 508 20 11 (Zurich)

# **SECTION 2: HAZARDS IDENTIFICATION**

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

CLP Classification - Regulation (EC) No 1272/2008

**Physical hazards** 

ALFAA14066

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Based on available data, the classification criteria are not met

#### **Health hazards**

Based on available data, the classification criteria are not met

#### **Environmental hazards**

Based on available data, the classification criteria are not met

Full text of Hazard Statements: see section 16

#### 2.2. Label elements

None required

EUH210 - Safety data sheet available on request

#### 2.3. Other hazards

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not require assessment

This product does not contain any known or suspected endocrine disruptors

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

#### 3.2. Mixtures

Component	CAS No	EC No	Weight %	CLP Classification - Regulation (EC) No 1272/2008
Magnesium	7439-95-4	EEC No. 231-104-6	96.0	Flam. Sol. 1 (H228) Water-react. 2 (H261) Self-heat. 2 (H252)
Aluminum	7429-90-5	EEC No. 231-072-3	3.0	-
Zinc	7440-66-6	EEC No. 231-175-3	1.0	-

Full text of Hazard Statements: see section 16

# **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of first aid measures

**General Advice** If symptoms persist, call a physician.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

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**Inhalation** Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Self-Protection of the First Aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination.

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

None reasonably foreseeable.

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

Notes to Physician Treat symptomatically.

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

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

approved class D extinguishers. Do not use water or foam.

## Extinguishing media which must not be used for safety reasons

Water may be ineffective.

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

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Fumes of aluminum or aluminum oxide, Zinc oxide, Magnesium oxides.

#### 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. No special precautions required.

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Should not be released into the environment. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological Information.

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

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Pick up and transfer to properly labelled containers.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

# **SECTION 7: HANDLING AND STORAGE**

#### Magnesium Aluminum Zinc plate, alloy AZ31B

#### 7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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

Keep in a dry place. Keep away from acids.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK) (Germany)

Storage Class/LGK 13

Switzerland - Storage of hazardous substances

Storage class - SC 11/13 https://www.kvu.ch/de/themen/stoffe-und-produkte https://www.kvu.ch/fr/themes/substances-et-produits https://www.kvu.ch/it/temi/sostanze-e-prodotti

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

Use in laboratories

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

#### 8.1. Control parameters

#### **Exposure limits**

List source(s): **UK** - EH40/2005 Work Exposure Limits, Forth edition. Published 2020. **IRE** - 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority. **CH** The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

I	Component	European Union	The United Kingdom	France	Belgium	Spain
Ī	Aluminum		STEL: 30 mg/m <sup>3</sup> 15 min	TWA / VME: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> 8 uren	TWA / VLA-ED: 1 mg/m <sup>3</sup>
١			STEL: 12 mg/m <sup>3</sup> 15 min	(8 heures). metal		(8 horas)
-			TWA: 10 mg/m <sup>3</sup> 8 hr	TWA / VME: 5 mg/m <sup>3</sup> (8		
			TWA: 4 mg/m <sup>3</sup> 8 hr	heures).		

Component	Italy	Germany	Portugal	The Netherlands	Finland
Aluminum		TWA: 1.25 mg/m <sup>3</sup> (8	TWA: 1 mg/m <sup>3</sup> 8 horas		
		Stunden). AGW -	_		
		exposure factor 2			
		TWA: 10 mg/m <sup>3</sup> (8			
		Stunden). AGW -			
		exposure factor 2			
		TWA: 4 mg/m <sup>3</sup> (8			
		Stunden). MAK			
		TWA: 1.5 mg/m <sup>3</sup> (8			
		Stunden). MAK			
Zinc		TWA: 0.1 mg/m <sup>3</sup> (8			
		Stunden). MAK			
		TWA: 2 mg/m <sup>3</sup> (8			
		Stunden). MAK			
		Höhepunkt: 0.4 mg/m <sup>3</sup>			
		Höhepunkt: 4 mg/m <sup>3</sup>			

L	Component	Austria	Denmark	Switzerland	Poland	Norway
Γ	Aluminum	MAK-KZGW: 20 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> 8 timer	TWA: 3 mg/m <sup>3</sup> 8	TWA: 2.5 mg/m <sup>3</sup> 8	TWA: 5 mg/m <sup>3</sup> 8 timer
		15 Minuten	TWA: 2 mg/m <sup>3</sup> 8 timer	Stunden	godzinach	STEL: 10 mg/m <sup>3</sup> 15
		MAK-TMW: 10 mg/m <sup>3</sup> 8	STEL: 10 mg/m <sup>3</sup> 15	TWA: 10 mg/m <sup>3</sup> 8	TWA: 1.2 mg/m <sup>3</sup> 8	minutter.
L		Stunden	minutter	Stunden	godzinach	pyrotechnical;value

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		STEL: 4 mg/m³ 15 minutter			calculated powder
Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Aluminum	TWA: 10.0 mg/m <sup>3</sup>	TWA-GVI: 10 mg/m <sup>3</sup> 8	TWA: 1 mg/m <sup>3</sup> 8 hr.		TWA: 10.0 mg/m <sup>3</sup> 8
	TWA: 1.5 mg/m <sup>3</sup>	satima. total dust,	respirable fraction		hodinách. dust
		inhalable particles	STEL: 3 mg/m <sup>3</sup> 15 min		
		TWA-GVI: 4 mg/m <sup>3</sup> 8			
		satima. respirable dust			

Component	Estonia	Gibraltar	Greece	Hungary	Iceland
Aluminum	TWA: 10 mg/m <sup>3</sup> 8		TWA: 10 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> 8	STEL: 10 mg/m <sup>3</sup> dust
	tundides. total dust		TWA: 5 mg/m <sup>3</sup>	órában. AK	and powder
	TWA: 4 mg/m <sup>3</sup> 8				TWA: 5 mg/m <sup>3</sup> 8
	tundides. respirable				klukkustundum. dust
	dust				and powder

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Aluminum	TWA: 2 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> inhalable			TWA: 3 mg/m <sup>3</sup> 8 ore
		fraction IPRD			TWA: 1 mg/m <sup>3</sup> 8 ore
		TWA: 2 mg/m <sup>3</sup>			STEL: 10 mg/m <sup>3</sup> 15
		respirable fraction IPRD			minute
		TWA: 1 mg/m <sup>3</sup> IPRD			STEL: 3 mg/m <sup>3</sup> 15
					minute

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Aluminum	TWA: 2 mg/m³ 0036 MAC: 6 mg/m³	TWA: 4 mg/m <sup>3</sup> inhalable dust TWA: 1.5 mg/m <sup>3</sup> respirable dust		TLV: 5 mg/m³ 8 timmar. NGV TLV: 2 mg/m³ 8 timmar. NGV	
Zinc		TWA: 0.1 mg/m <sup>3</sup> respirable fraction TWA: 2 mg/m <sup>3</sup> inhalable fraction			

#### **Biological limit values**

List source(s):

Component	European Union	United Kingdom	France	Spain	Germany
Aluminum					Aluminum: 50 µg/g
					Creatinine urine (for
					long-term exposures: at
					the end of the shift after
					several shifts)

Component	Italy	Finland	Denmark	Bulgaria	Romania
Aluminum					Aluminum: 200 μg/L
					urine end of shift

Component	Gibraltar	Latvia	Slovak Republic	Luxembourg	Turkey
Aluminum			Aluminum: 60 μg/g		
			creatinine urine not		
			critical		

#### **Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust

MDHS 91 Metals and metalloids in workplace air by X-ray fluorescence spectrometry

MDHS 99 Metals in air by ICP-AES

### Derived No Effect Level (DNEL) / Derived Minimum Effect Level (DMEL)

See table for values

Component	Acute effects local	Acute effects	Chronic effects local	Chronic effects
	(Dermal)	systemic (Dermal)	(Dermal)	systemic (Dermal)

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Zinc		DNEL = 83mg/kg
7440-66-6 ( 1.0 )		bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Zinc 7440-66-6 ( 1.0 )				DNEL = 5mg/m <sup>3</sup>

#### **Predicted No Effect Concentration (PNEC)**

See values below.

Component	Fresh water	Fresh water	Water Intermittent	Microorganisms in	Soil (Agriculture)
		sediment		sewage treatment	
Aluminum				PNEC = 20mg/L	
7429-90-5 ( 3.0 )					
Zinc	PNEC = 20.6µg/L	PNEC =		PNEC = 100µg/L	PNEC =
7440-66-6 ( 1.0 )		235.6mg/kg			106.8mg/kg soil dw
		sediment dw			

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Zinc 7440-66-6(1.0)	PNEC = 6.1µg/L	PNEC = 121mg/kg sediment dw			

#### 8.2. Exposure controls

## **Engineering Measures**

None under normal use conditions.

Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles) (European standard - EN 166)

Hand Protection No special protective equipment required

Glove material	Breakthrough time	Glove thickness	EU standard	Glove comments
Disposable gloves	See manufacturers	-	EN 374	(minimum requirement)
	recommendations			

Skin and body protection Long sleeved clothing.

**Respiratory Protection** No special protective equipment required.

Large scale/emergency use In case of insufficient ventilation, wear suitable respiratory equipment

Small scale/Laboratory use

No personal respiratory protective equipment normally required

When RPE is used a face piece Fit Test should be conducted

**Environmental exposure controls** Prevent product from entering drains. Do not allow material to contaminate ground water

system. Local authorities should be advised if significant spillages cannot be contained.

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

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

Physical State Solid

Appearance Silver

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Odor Odorless

Solid

Solid

Solid

Odor Threshold
Melting Point/Range
No data available
No data available
No data available
No data available

Boiling Point/Range No information available

Flammability (liquid)

Flammability (solid,gas)

Not applicable
No information available

Explosion Limits No data available

Flash Point No information available Method - No information available

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availablepHNot applicable

Viscosity

Not applicable

Water Solubility

Insoluble in water

Solubility in other solvents

No information available

Partition Coefficient (n-octanol/water)

Vapor Pressure
Density / Specific Gravity
Bulk Density
Vapor Density
No data available
No data available
No data available
Not applicable

Particle characteristics No data available

9.2. Other information

Molecular FormulaMg:Al:Zn; 96:3:1 wt%Evaporation RateNot applicable - Solid

# **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity Yes

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous PolymerizationNo information available.Hazardous ReactionsNone under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat.

10.5. Incompatible materials

Acids. Oxidizing agent.

10.6. Hazardous decomposition products

Fumes of aluminum or aluminum oxide. Zinc oxide. Magnesium oxides.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### **Product Information**

(a) acute toxicity;

Oral No data available
Dermal No data available

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Inhalation No data available

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Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Magnesium	LD50 = 230 mg/kg (Rat)	-	-
Aluminum	-	-	LC50 > 0.888 mg/L (Rat) 4 h
Zinc	LD50 = 630 mg/kg (Rat)	-	-

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity; No data available

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable

Solid

Symptoms / effects,both acute and No information available. delayed

11.2. Information on other hazards

Endocrine Disrupting Properties Assess endocrine disrupting properties for human health. This product does not contain any

known or suspected endocrine disruptors.

# **SECTION 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

**Ecotoxicity effects**The product contains following substances which are hazardous for the environment.
Contains a substance which is:. Very toxic to aquatic organisms. May cause long-term

adverse effects in the environment. Do not allow material to contaminate ground water

system.

Component	Freshwater Fish	Water Flea	Freshwater Algae	
Zinc	LC50: = 0.41 mg/L, 96h static	EC50: 0.139 - 0.908 mg/L, 48h	EC50: 0.09 - 0.125 mg/L, 72h	
	(Oncorhynchus mykiss)	Static (Daphnia magna)	static (Pseudokirchneriella	

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12.2. Persistence and degradability Product contains heavy metals. Discharge into the environment must be avoided. Special

pre-treatment is necessary

**Persistence** Insoluble in water, May persist. Degradability Not relevant for inorganic substances.

Degradation in sewage

treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste

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water treatment plants.

12.3. Bioaccumulative potential May have some potential to bioaccumulate; Product has a high potential to bioconcentrate

Spillage unlikely to penetrate soil Is not likely mobile in the environment due its low water 12.4. Mobility in soil

solubility.

12.5. Results of PBT and vPvB

<u>assessment</u>

In accordance with Annex XIII of the REACH Regulation, inorganic substances do not

require assessment.

12.6. Endocrine disrupting

properties

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors

12.7. Other adverse effects

**Persistent Organic Pollutant Ozone Depletion Potential** 

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from Residues/Unused

**Products** 

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

**Contaminated Packaging** Dispose of this container to hazardous or special waste collection point. Empty containers

retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and

empty container away from heat and sources of ignition.

**European Waste Catalogue (EWC)** According to the European Waste Catalog, Waste Codes are not product specific, but

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application specific.

Other Information Do not flush to sewer. Waste codes should be assigned by the user based on the

application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not let this chemical enter the environment. Do not

empty into drains.

Switzerland - Waste Ordinance Disposal should be in accordance with applicable regional, national and local laws and

regulations. Ordinance on the Avoidance and the Disposal of Waste (Waste Ordinance,

ADWO) SR 814.600

https://www.fedlex.admin.ch/eli/cc/2015/891/en

#### **SECTION 14: TRANSPORT INFORMATION**

IMDG/IMO Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

ADR Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

IATA Not regulated

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards No hazards identified

**14.6. Special precautions for user** No special precautions required.

14.7. Maritime transport in bulk

according to IMO instruments

# SECTION 15: REGULATORY INFORMATION

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

Not applicable, packaged goods

#### **International Inventories**

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Magnesium	7439-95-4	231-104-6	ı	1	X	X	KE-22673	Χ	ı
Aluminum	7429-90-5	231-072-3	-	-	Х	Х	KE-00881	X	-
Zinc	7440-66-6	231-175-3	-	-	Х	Х	KE-35518	Х	-

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Magnesium	7439-95-4	X	ACTIVE	X	i	X	Χ	X
Aluminum	7429-90-5	Х	ACTIVE	Х	-	X	Х	Х
Zinc	7440-66-6	Χ	ACTIVE	Χ	-	Х	Χ	Х

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Magnesium	7439-95-4	-	-	-
Aluminum	7429-90-5	-	Use restricted. See item 75. (see link for restriction details)	-
Zinc	7440-66-6	-	Use restricted. See item 75. (see link for restriction details)	-

#### **REACH links**

https://echa.europa.eu/substances-restricted-under-reach

#### Seveso III Directive (2012/18/EC)

Component	CAS No	Seveso III Directive (2012/18/EC) -	Seveso III Directive (2012/18/EC) -
		Qualifying Quantities for Major Accident	Qualifying Quantities for Safety Report
		Notification	Requirements
Magnesium	7439-95-4	Not applicable	Not applicable
Aluminum	7429-90-5	Not applicable	Not applicable
Zinc	7440-66-6	Not applicable	Not applicable

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

#### **National Regulations**

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

**WGK Classification** Water endangering class = non-hazardous to waters (self classification)

Component	Germany - Water Classification (AwSV)	Germany - TA-Luft Class
Magnesium	nwg	
Aluminum	nwg	
Zinc	nwg	

Г	Component	France - INRS (Tables of occupational diseases)	
Į.	Component		
	Aluminum	Tableaux des maladies professionnelles (TMP) - RG 32	
		Tableaux des maladies professionnelles (TMP) - RG 16,RG 16bis	
Ī	Zinc	Tableaux des maladies professionnelles (TMP) - RG 61	

#### **Swiss Regulations**

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

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Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Zinc 7440-66-6 ( 1.0 )	Prohibited and Restricted Substances		

#### 15.2. Chemical safety assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures

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

#### Full text of H-Statements referred to under sections 2 and 3

#### Legend

**CAS** - Chemical Abstracts Service TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances/EU List of Notified Chemical Substances Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances **ENCS** - Japanese Existing and New Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances AICS - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances NZIoC - New Zealand Inventory of Chemicals

WEL - Workplace Exposure Limit TWA - Time Weighted Average

ACGIH - American Conference of Governmental Industrial Hygienists IARC - International Agency for Research on Cancer

**DNEL** - Derived No Effect Level Predicted No Effect Concentration (PNEC) RPE - Respiratory Protective Equipment LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50% EC50 - Effective Concentration 50%

NOEC - No Observed Effect Concentration POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative PBT - Persistent, Bioaccumulative, Toxic

ICAO/IATA - International Civil Aviation Organization/International Air ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road Transport Association

IMO/IMDG - International Maritime Organization/International Maritime MARPOL - International Convention for the Prevention of Pollution from Dangerous Goods Code Ships

OECD - Organisation for Economic Co-operation and Development ATE - Acute Toxicity Estimate

**BCF** - Bioconcentration factor VOC - (volatile organic compound) Key literature references and sources for data

https://echa.europa.eu/information-on-chemicals

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

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

**Prepared By** Health, Safety and Environmental Department

**Revision Date** 20-Feb-2024

**Revision Summary** New emergency telephone response service provider.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006 .

For Switzerland - Compiled in accordance with the technical provisions referred to in Annex 2,

Revision Date 20-Feb-2024

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# Number 3, ChemO (SR 813.11 - Ordinance on Protection against Dangerous Substances and Preparations).

#### **Disclaimer**

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# **End of Safety Data Sheet**