

# SAFETY DATA SHEET

# Section 1: Identification of the substance/mixture and of the company/undertaking

**Product identifier** 

Trade name or designation

of the mixture

WHITE FUSED ALUMINUM OXIDE

**Registration number** 01-2119529248-35-0141

**Synonyms** AL, ALSD, ALHD, ALLD, ALZD and ALC

**Date of first issue** 01-February-2012

Version number 01
Revision date Supersedes date -

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

Identified uses Abrasives, Ceramics, Flooring, Surface Treatment and Refractory.

Uses advised against

Details of the supplier of the safety data sheet

Company identification ELFUSA GERAL DE ELETROFUSÃO LTDA

501, Julio Michelazzo,

São João da Boa Vista, São Paulo - Brazil ZIP CODE 13872-900

**Telephone** +55.19.3634.2300

Person responsible for the

**MSDS** 

Contact

**Telephone** 

qualidade@elfusa.com.br

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Person Responsible for commercial introduction of

the substance within

Elfusa Trading SL.

**European Community** 

Mijas

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Emergency telephone 1-760-476-3961

Access Code: 333691

#### Section 2: Hazards identification

## Classification of the substance or mixture

## Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This substance does not meet the criteria for classification according to Directive 67/548/EEC as amended.

# Classification according to Regulation (EC) No 1272/2008 as amended

This substance does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

**Hazard summary** 

Physical hazards Not classified for physical hazards.

Health hazards Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

**Specific hazards** Dust may cause eye, skin and respiratory tract irritation. Prolonged and repeated overexposure to

dust can lead to pneumoconiosis.

Main symptoms Irritation of eyes and mucous membranes. Irritation of nose and throat.

Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard statements** The mixture does not meet the criteria for classification.

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**Precautionary statements** 

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Supplemental label information None

Other hazards Not a PBT or vPvB substance or mixture.

## Section 3: Composition/information on ingredients

**General information** 

CAS-No. / EC No. REACH Registration No. INDEX No. Chemical name % **Notes** Aluminium oxide ≥ 99 1344-28-1 01-2119529248-35-0141 # 215-691-6 Classification: DSD: -CLP: -Impurities: ≤ 1 N/A SiO2+Fe2O3+Na2O+CaO+MgO+T Classification: DSD: -

**Composition comments** 

CLP: -

This product is registered under the REACH Regulation 1907/2006 as a mono-constituent substance. All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. For more detailed chemical composition, refer to the

certificate of analysis.

# Section 4: First aid measures

**General information** Get medical attention if any discomfort develops.

Description of first aid measures

Inhalation Move to fresh air. Get medical attention if any discomfort continues.

Skin contact Wash with soap and water. Get medical attention if irritation develops or persists.

Eye contact Flush eyes thoroughly with water for at least 15 minutes. Get medical attention if irritation

develops or persists.

Ingestion Immediately rinse mouth and drink plenty of water. Get medical attention if irritation develops and

persists.

Most important symptoms and effects, both acute and delayed Irritation of eyes and mucous membranes. Irritation of nose and throat.

Indication of any immediate medical attention and special

Treat symptomatically.

treatment needed

## Section 5: Firefighting measures

General fire hazards The product is not flammable.

**Extinguishing media** 

Suitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

No restrictions known.

media

Special hazards arising from the substance or mixture

None known.

Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.

Special firefighting procedures

Move containers from fire area if you can do it without risk.

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<sup>#:</sup> This substance has workplace exposure limit(s).

## Section 6: Accidental release measures

## Personal precautions, protective equipment and emergency procedures

**For non-emergency** Ensure adequate ventilation. Avoid inhalation of dust and contact with skin and eyes. Wear

personnel protective clothing as described in section 8 of this safety data sheet.

For emergency responders Wear protective clothing as described in Section 8 of this safety data sheet.

**Environmental precautions** Avoid release to the environment. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Recover and recycle, if practical. Sweep up or vacuum up spillage and collect in suitable containment and cleaning up

Recover and recycle, if practical. Sweep up or vacuum up spillage and collect in suitable containment and cleaning up

filter.

**Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

## Section 7: Handling and storage

**Precautions for safe handling** Provide adequate ventilation. Use work methods which minimise dust production. Avoid inhalation

of dust and contact with skin and eyes. Wear appropriate personal protective equipment. Do not

add wet alumina to electrolysis cells. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in a dry place.

**Specific end use(s)** For detailed information, see section 15. Recommendations given in the exposure scenario for the

uses are distributed and annexed as separate documents to this eSDS.

## Section 8: Exposure controls/personal protection

# **Control parameters**

## Occupational exposure limits

Austria. MAK List			
Material	Туре	Value	Form
Aluminium oxide (1344-28-1)	MAK	5 mg/m3	Respirable fume.
		5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fume.
		10 mg/m3	Respirable fraction.
Components	Туре	Value	Form
Aluminium oxide (1344-28-1)	MAK	5 mg/m3	Respirable fume.
		5 mg/m3	Respirable fraction.
		10 mg/m3	Inhalable fraction.
	STEL	20 mg/m3	Inhalable fraction.
		10 mg/m3	Respirable fume.
		10 mg/m3	Respirable fraction.
Belgium. Exposure Limit Values.			
Material .	Туре	Value	
Aluminium oxide (1344-28-1)	TWA	10 mg/m3	
Components	Туре	Value	
Aluminium oxide (1344-28-1)	TWA	10 mg/m3	

Aluminium oxide (1344-28-1)	TWA	10 mg/m3	
Bulgaria. OELs. Regulation No	13 on protection of workers aga	ninst risks of exposure to che	mical agents at work
Material	Туре	Value	Form
Aluminium oxide (1344-28-1)	TWA	10 mg/m3	Dust.
		1,5 mg/m3	Respirable fraction.
Components	Туре	Value	Form
Aluminium oxide	TWA	10 mg/m3	Dust.
(1344-28-1)		-	
		1,5 mg/m3	Respirable fraction.
Czech Republic. OELs. Govern	ment Decree 361		
Material	Туре	Value	Form
Aluminium oxide (1344-28-1)	TWA	0,1 mg/m3	Respirable dust.
Components	Туре	Value	Form
Aluminium oxide (1344-28-1)	TWA	0,1 mg/m3	Respirable dust.

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Denmark. Exposure Limit Va Material	Туре	Value	Form
Aluminium oxide (1344-28-1)	TLV	5 mg/m3	Total
Components	Typo	2 mg/m3 <b>Value</b>	Respirable. <b>Form</b>
Components Aluminium oxide	Type  TLV	5 mg/m3	Total
1344-28-1)	TLV	•	
Estonia. OELs. Occupational 2001)	Exposure Limits of Hazardous Substa	2 mg/m3 ances. (Annex of Regulati	Respirable. on No. 293 of 18 Septemb
Material	Туре	Value	Form
Aluminium oxide 1344-28-1)	TWA	4 mg/m3	Respirable dust.
Components	Type	10 mg/m3 <b>Value</b>	Total dust. <b>Form</b>
Aluminium oxide	TWA	4 mg/m3	Respirable dust.
1344-28-1)		10 mg/m3	Total dust.
France. Threshold Limit Valu Material	es (VLEP) for Occupational Exposure Type	to Chemicals in France, I	NRS ED 984
Aluminium oxide 1344-28-1)	VME	10 mg/m3	
Components	Туре	Value	
Aluminium oxide 1344-28-1)	VME	10 mg/m3	
Germany. DFG MAK List (adv in the Work Area (DFG)	visory OELs). Commission for the Inve	estigation of Health Hazar	ds of Chemical Compoun
Material	Туре	Value	Form
Aluminium oxide 1344-28-1)	TWA	4 mg/m3 1,5 mg/m3	Inhalable dust. Respirable dust.
Components	Туре	Value	Form
Aluminium oxide	TWA	4 mg/m3	Inhalable dust.
(1344-28-1)		1,5 mg/m3	Respirable dust.
Germany. TRGS 900, Limit Va Material	alues in the Ambient Air at the Workpl Type	ace Value	Form
Aluminium oxide	AGW	3 mg/m3	Respirable dust.
(1344-28-1)		10 mg/m3	Inhalable dust.
Components	Туре	Value	Form
Aluminium oxide 1344-28-1)	AGW	3 mg/m3	Respirable dust.
Overes OFI a (Peaves No. 00	/1000 as amonded)	10 mg/m3	Inhalable dust.
Greece. OELs (Decree No. 90 Material	/1999, as amended) Type	Value	Form
Aluminium oxide 1344-28-1)	TWA	5 mg/m3	Inhalable
Components	Туре	10 mg/m3 <b>Value</b>	Respirable. <b>Form</b>
Aluminium oxide	TWA	5 mg/m3	Inhalable
(1344-28-1)		10 mg/m3	Respirable.
	on Chemical Safety of Workplaces	Value	Form
Material Aluminium oxide	<b>Type</b> TWA	Value 6 mg/m3	Form Respirable.
(1344-28-1)		•	•
Components	Туре	Value	Form
Aluminium oxide	TWA	6 mg/m3	Respirable.
(1344-28-1)			
(1344-28-1) Iceland. OELs. Regulation 15 Material	4/1999 on occupational exposure limit Type	ts Value	

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Components	54/1999 on occupational exposure lim Type	Value	
Aluminium oxide	TWA	10 mg/m3	
1344-28-1)			
eland. Occupational Expos laterial	ure Limits Type	Value	Form
Juminium oxide	TWA	4 mg/m3	Respirable dust.
1344-28-1)	1 **/ (	4 mg/mo	respirable dust.
	_	10 mg/m3	Total inhalable dust.
Components	Type	Value	Form
lluminium oxide 1344-28-1)	TWA	4 mg/m3	Respirable dust.
,		10 mg/m3	Total inhalable dust.
taly. OELs	<u>_</u>		_
laterial	Туре	Value	Form
luminium oxide 1344-28-1)	TWA	1 mg/m3	Respirable fraction.
Components	Туре	Value	Form
Iluminium oxide	TWA	1 mg/m3	Respirable fraction.
1344-28-1)			
•	exposure limit values of chemical sub		
Material	Type	Value	Form
lluminium oxide 1344-28-1)	TWA	6 mg/m3	Decomposition aeroso
		4 mg/m3	
Components	Туре	Value	Form
luminium oxide 1344-28-1)	TWA	6 mg/m3	Decomposition aeroso
1344-20-1)		4 mg/m3	
ithuania. OELs. Limit Value	es for Chemical Substances, General	<del>-</del>	orm HN 23:2007)
<b>l</b> aterial	Туре	Value	Form
Aluminium oxide	TWA	5 mg/m3	Inhalable fraction.
1344-28-1)		2 mg/m3	Respirable fraction.
Components	Type	Value	Form
luminium oxide	TWA	5 mg/m3	Inhalable fraction.
1344-28-1)		2 2	Desmirable fraction
	ora fan Oantaninanta in tha Wantania	2 mg/m3	Respirable fraction.
Norway. Administrative Norm Material	ns for Contaminants in the Workplac Type	e Value	
Juminium oxide	TLV	10 mg/m3	
1344-28-1)		•	
Components	Туре	Value	
Numinium oxide 1344-28-1)	TLV	10 mg/m3	
·	abour and Social Policy Regarding M	aximum Allowable Concen	trations and Intensities in
Vorking Environment			
laterial	Туре	Value	Form
luminium oxide	TWA	2,5 mg/m3	Fume, total dust.
1344-28-1)		1,2 mg/m3	Respirable dust and/or
		_	fume.
		Value	Form
	Туре		
luminium oxide	<b>Type</b> TWA	2,5 mg/m3	Fume, total dust.
luminium oxide			Fume, total dust.
Numinium oxide 1344-28-1) Portugal. VLEs. Norm on occ	TWA cupational exposure to chemical age	2,5 mg/m3 1,2 mg/m3 nts (NP 1796)	Fume, total dust.  Respirable dust and/or
oluminium oxide 1344-28-1) Portugal. VLEs. Norm on occ Material	TWA cupational exposure to chemical ager Type	2,5 mg/m3 1,2 mg/m3 nts (NP 1796) Value	Fume, total dust.  Respirable dust and/or
Numinium oxide 1344-28-1) Portugal. VLEs. Norm on occ Material Numinium oxide	TWA cupational exposure to chemical age	2,5 mg/m3 1,2 mg/m3 nts (NP 1796)	Fume, total dust.  Respirable dust and/or
Components Iduminium oxide 1344-28-1)  Portugal. VLEs. Norm on occ Material Iduminium oxide 1344-28-1) Components Iduminium oxide	TWA cupational exposure to chemical ager Type	2,5 mg/m3 1,2 mg/m3 nts (NP 1796) Value	Fume, total dust.  Respirable dust and/or

Material	Туре	Value	Form
Aluminium oxide (1344-28-1)	STEL	5 mg/m3	Aerosol
		1,2 ppm	Aerosol
	TWA	2 mg/m3	Aerosol
		0,5 ppm	Aerosol
Components	Туре	Value	Form
Aluminium oxide (1344-28-1)	STEL	5 mg/m3	Aerosol
		1,2 ppm	Aerosol
	TWA	2 mg/m3	Aerosol
		0,5 ppm	Aerosol
Slovakia. OELs. Decree of the go agents	vernment of the Slovak Repub	olic concerning protection of h	nealth in work with chem
Material	Туре	Value	Form
Aluminium oxide	TWA	4 mg/m3	Inhalable fraction.
(1344-28-1)			
		1,5 mg/m3	Respirable fraction.
	_	0,1 mg/m3	_
Components	Туре	Value	Form
Aluminium oxide (1344-28-1)	TWA	4 mg/m3	Inhalable fraction.
		1,5 mg/m3	Respirable fraction.
		0,1 mg/m3	
Spain. Occupational Exposure Li			
Material	Туре	Value	
Aluminium oxide (1344-28-1)	TWA	10 mg/m3	
Components	Туре	Value	
Aluminium oxide (1344-28-1)	TWA	10 mg/m3	
Sweden. Occupational Exposure Material		Value	Form
	Туре		
Aluminium oxide (1344-28-1)	TWA	5 mg/m3	Total dust.
Componento	Typo	2 mg/m3	Respirable dust.
Components	Туре	Value	Form
Aluminium oxide (1344-28-1)	TWA	5 mg/m3	Total dust.
Switzerland. SUVA Grenzwerte a	m Arhaitanlatz	2 mg/m3	Respirable dust.
Material	Type	Value	Form
Aluminium oxide	STEL	24 mg/m3	Fume and respirable
(1344-28-1)	SILL	∠ <del>-</del> mg/mo	dust.
,	TWA	3 mg/m3	Respirable dust.
		3 mg/m3	Fume and respirable
		·	dust.
Components	Туре	Value	Form
Aluminium oxide (1344-28-1)	STEL	24 mg/m3	Fume and respirable dust.
(·-·· <del></del> · /	TWA	3 mg/m3	Respirable dust.
		3 mg/m3	Fume and respirable
		- <del>3</del>	dust.
UK. EH40 Workplace Exposure L	imits (WELs)		
	Type	Value	Form
Material	TWA	4 mg/m3	Respirable dust.
	1 V V /~\	+ mg/ms	respirable dust.
Aluminium oxide			Inhalable dust.
		10 mg/m3	iririalable dust.
Aluminium oxide (1344-28-1)	Туре	10 mg/m3 <b>Value</b>	Form
Aluminium oxide (1344-28-1) Components	<b>Type</b> TWA	Value	Form
Aluminium oxide			

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## **DNEL**

Material	Type	Route	Value	Form
Aluminium oxide (1344-28-1)	Workers	Oral	3,29 mg/kg/day	Long term exposure systemic effects
		Inhalation	15,63 mg/m3	Long term exposure local effects
Components	Type	Route	Value	Form
Aluminium oxide (1344-28-1)	Workers	Oral	3,29 mg/kg/day	Long term exposure systemic effects
		Inhalation	15,63 mg/m3	Long term exposure local effects

#### **PNEC**

Material	Туре	Route	Value
Aluminium oxide (1344-28-1)	Aqua (freshwater)	Not applicable	79,4 μg/l
	Sewage Treatment Plant	Not applicable	20 mg/l
Components	Type	Route	Value
	**		
Aluminium oxide (1344-28-1)	Aqua (freshwater)	Not applicable	79,4 µg/l

**Exposure controls** 

Appropriate engineering

controls

Provide sufficient ventilation for operations causing dust formation. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

**General information** Use personal protective equipment as required. Personal protective equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection

Skin protection

Wear goggles/face shield.

- Hand protection Wear protective gloves. Suitable gloves can be recommended by the glove supplier.

- Other Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment

with particle filter (type P2). Seek advice from local supervisor.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Wash hands after handling. Routinely wash work clothing and protective equipment to remove

contaminants. Handle in accordance with good industrial hygiene and safety practices. Follow up

on any medical surveillance requirements.

**Environmental exposure** 

controls

Contain spills and prevent releases and observe national regulations on emissions.

# Section 9: Physical and chemical properties

Information on basic physical and chemical properties

White powder. **Appearance** 

Physical state Solid. Powder. **Form** Colour White. Odourless. Odour **Odour threshold** Not available. Not applicable. 2040 °C (3704 °F)

Melting point/freezing

point

Boiling point, initial boiling point, and boiling range

Not available.

Not applicable. Flash point **Auto-ignition temperature** Not applicable. Non flammable. Flammability (solid, gas) Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Not oxidizing. Oxidising properties **Explosive properties** 

Not explosive. **Explosive limit** Not applicable. Not applicable. Vapour pressure Not applicable. Vapour density **Evaporation rate** Not applicable. Relative density 3.97 at 20 °C Solubility (water) Insoluble

**Partition coefficient** (n-octanol/water)

Not applicable.

Not available. Decomposition

temperature

**Bulk density** Not applicable. **Viscosity** Not applicable. Percent volatile Not available.

Other information No relevant additional information available.

# Section 10: Stability and reactivity

Reactivity The product is non reactive under normal conditions of use, storage and transport.

Chemical stability Stable at normal conditions.

Possibility of hazardous

reactions

Hazardous polymerisation does not occur. Hazardous reactions do not occur.

Conditions to avoid Moisture. Contact with incompatible materials.

Incompatible materials None known.

Hazardous decomposition

products

No hazardous decomposition products are known.

# **Section 11: Toxicological information**

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion may cause irritation and malaise. Ingestion Dust may irritate respiratory system. Inhalation

Skin contact Dust may irritate skin. Eve contact Dust may irritate the eyes.

**Symptoms** Irritation of eyes and mucous membranes. Irritation of nose and throat.

Information on toxicological effects

Dust may cause eye, skin and respiratory tract irritation. Acute toxicity

Product **Test results** 

Aluminium oxide (1344-28-1) Acute Inhalation LC50 Rat: > 2,3 mg/l 4 hours

May cause irritation through mechanical abrasion.

Acute Oral LD50 Rat: > 5000 mg/kg

May cause irritation through mechanical abrasion. Skin corrosion/irritation

Serious eye damage/eye irritation

Respiratory sensitisation

Not classified.

Skin sensitisation Germ cell mutagenicity Not a skin sensitiser.

Carcinogenicity

Test data conclusive but not sufficient for classification. Test data conclusive but not sufficient for classification.

Reproductive toxicity Specific target organ

Test data conclusive but not sufficient for classification.

toxicity - single exposure

Test data conclusive but not sufficient for classification.

Specific target organ toxicity - repeated

Test data conclusive but not sufficient for classification.

exposure

Not classified. Aspiration hazard

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information

Not available.

Other information

Prolonged and repeated overexposure to dust can lead to pneumoconiosis.

# Section 12: Ecological information

#### **Toxicity**

Product	Test results
Aluminium oxide (1344-28-1)	EC50 Daphnia magna: > 100 mg/l 48 hours
	EC50 Green algae (Selenastrum capricornutum): > 100 mg/l 72 hours
	LC50 Salmo trutta: > 100 mg/l 96 hours

Persistence and degradability

The product is not biodegradable.

Bioaccumulative potential The product is not bioaccumulating.

Mobility The product is insoluble in water.

Environmental fate - Partition coefficient

Not applicable.

Mobility in soil Aluminum oxide is not mobile in the environment, unless it comes into contact with an aqueous

environment with a pH below 5,5 or above 8,5.

Results of PBT and vPvB assessment Not a PBT or vPvB substance or mixture.

## Section 13: Disposal considerations

Waste treatment methods

**Residual waste** Recover and recycle, if practical. Dispose of in accordance with local regulations.

regulations.

EU waste code 16 05 09

**Disposal methods/information** Dispose in accordance with all applicable regulations.

# **Section 14: Transport information**

## ADR

The product is not covered by international regulation on the transport of dangerous goods.

#### RID

The product is not covered by international regulation on the transport of dangerous goods.

#### ADN

The product is not covered by international regulation on the transport of dangerous goods.

#### **IATA**

The product is not covered by international regulation on the transport of dangerous goods.

#### IMDG

The product is not covered by international regulation on the transport of dangerous goods.

Transport in bulk according to Annex II of MARPOL73/78 and

No information available.

the IBC Code

# **Section 15: Regulatory information**

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

## **EU** regulations

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 2037/2000 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Not listed.

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Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V

Not listed.

Directive 96/61/EC concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registery (EPER)

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1). Candidate List

Not listed.

Other regulations This substance does not meet the criteria for classification according to Regulation (EC)

1272/2008 (CLP Regulation) and Directive 67/548/EEC and their amendments respectively. This

Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

**National regulations** Follow national regulation for work with chemical agents.

**Chemical safety assessment** For this substance a chemical safety assessment has been carried out.

#### Section 16: Other information

**List of abbreviations** DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative.

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008. LD50: Lethal Dose, 50%. LC50: Lethal Concentration, 50%.

References IUCLIE

Chemical safety report.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements or R-phrases and H-phrases under Sections 2 to 15 None.

**Training information** Follow training instructions when handling this material.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

available.

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