according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier		
Trade name	:	Coolspheric N100
Product code	:	027034G60
Substance name	:	aluminium
EC-No.	:	231-072-3
REACH Registration Number	:	01-2119529243-45

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

Use of the	:	Colouring agents, pigments
Substance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	: ECKART GmbH Guentersthal 4 91235 Hartenstein
Telephone	: +499152770
Telefax	: +499152777008
E-mail address of person responsible for the SDS	: msds.eckart@altana.com

1.4 Emergency telephone number

NCEC: +44 1235 239670 (Europe) Call and response in your language is possible. Contract no.: ECKART29003-NCEC.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Information concerning particular hazards for human and environment: Please refer to our website for further important safety instructions for handling aluminium powder: according to Regulation (EC) No. 1907/2006



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http://www.eckart.net/fileadmin/eckart/Service/GDA_Alupulver_Safety_engl.pdf

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

2.3 Other hazards

Combustible Solids

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

ingredients

SECTION 3: Composition/information on ingredients

3.1 Substances	
Substance name	: aluminium
EC-No.	: 231-072-3
Components	
Remarks	: No hazardous

SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice		Move the victim to fresh air.		
		No hazards which require special first aid measures.		
If inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.		
In case of skin contact	:	Wash off immediately with soap and plenty of water.		
In case of eye contact	:	Remove contact lenses. If eye irritation persists, consult a specialist.		
If swallowed	:	Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.		

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4.2 Most important symptoms and effects, both acute and delayed None known.					
4.3 Indication of any immediate medical attention and special treatment needed					

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Dry sand Special powder against metal fire
Unsuitable extinguishing media	:	ABC powder Carbon dioxide (CO2) Water Foam
5.2 Special hazards arising from	the	substance or mixture
Specific hazards during firefighting	:	
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

• • •	e equipment and emergency procedures Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.
6.2 Environmental precautions General advice :	The product should not be allowed to enter drains, water courses or the soil.
6.3 Methods and material for contai Methods for cleaning up :	nment and cleaning up Use mechanical handling equipment. Do not use a vacuum cleaner. Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water.

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		Keep in suitabl	e, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	Advice on safe handling Advice on protection against	:	Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat and sources of ignition. Do not smoke. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. During processing, dust may form explosive mixture in air.
	fire and explosion		Take measures to prevent the build up of electrostatic charge. Earthing of containers and apparatuses is essential. Use explosion-proof equipment. When transferring from one container to another apply earthing measures and use conductive hose material.
			Normal measures for preventive fire protection.
	Hygiene measures	:	General industrial hygiene practice.
7.2	Conditions for safe storage, i	incl	uding any incompatibilities
	Requirements for storage areas and containers	:	Reaction with water liberates extremely flammable gas (hydrogen) Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.
			Electrical installations / working materials must comply with the technological safety standards.
	Further information on storage conditions	:	Protect from humidity and water.
	Advice on common storage	:	Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
	Further information on storage stability	:	Keep in a dry place. No decomposition if stored and applied as directed.

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7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
aluminium	7429-90-5	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium	Workers	Workers Inhalation		3.72 mg/m3
	Consumers	Oral	Long-term systemic effects	3.95 mg/kg
	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
aluminium	clarification plant	20 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection	:	Face-shield Safety glasses
Hand protection		
Material	:	Leather
Glove length	:	Long sleeve gloves
Remarks	:	Leather gloves The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
Skin and body protection	:	Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes.
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : powder

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Colour		:	grey	
Odour		:	characteristic	
Odour Th	reshold	:	No data available	9
Melting p	oint/range	:	660 °C	
Boiling po	pint/boiling range	:	2,327 °C	
Flammab	ility	:	Combustible Soli	ids
Upper ex flammabi	plosion limit / Upper lity limit	:	No data available	2
Lower ex flammabi	plosion limit / Lower lity limit	:	30 g/m3	
Flash poi	nt	:	Not applicable	
Auto-ignit	tion temperature	:	> 600 °C	
Decompo	sition temperature	:	No data available)
pН		:	substance/mixtu	re is non-soluble (in water)
Viscosity	, kinematic	:	No data available	9
Solubility Water sol Solubility		:	insoluble No data available)
	coefficient: n-	:	No data available	9
octanol/w Vapour p		:	No data available)
Relative of	density	:	No data available)
Density		:	2.7 g/cm3	
Bulk dens Relative v	sity /apour density	:	900 - 1,200 kg/m No data available	
	haracteristics e Size Distribution	:	No data available	9
9.2 Other info No data a				

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SECTIO	SECTION 10: Stability and reactivity							
10.1 Reac No de	tivity ecomposition if stored	and applied as d	irected.					
	nical stability							
	ecomposition if stored	and applied as d	irected.					
10.3 Poss	bility of hazardous	reactions						
Hazardous reactions : Contact with acids and alkalis may release								
		Stable ur	nder recommended storage conditions.					
		Dust may	r form explosive mixture in air.					
10.4 Cond	litions to avoid							
Cond	itions to avoid	: No data a	available					
10.5 Inco	mpatible materials							
Mater	rials to avoid	: Acids Bases Oxidizing Water	agents					

10.6 Hazardous decomposition products

This information is not available.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

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		cell mutagenicity ssified based on availa	able information.					
	Carcinogenicity Not classified based on available information.							
	-	ductive toxicity ssified based on availa	able information.					
	STOT - single exposure Not classified based on available information.							
		- repeated exposure ssified based on availa	able information.					
	Aspiration toxicity Not classified based on available information.							
11.2	Inform	ation on other hazar	ds					
	Furthe	r information						
	Produce Remark		: No data availal	ble				

SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

according to Regulation (EC) No. 1907/2006



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	tional ecological mation	:	No data available		
SECTIO	N 13: Disposal cons	ider	ations		
European Waste Catalogue European Waste Catalogue		:	12 01 04 - non-ferrous metal dust and particles 10 03 21 - other particulates and dust (including ball-mill dust) containing hazardous substances		
13.1 Was Prod	te treatment methods uct	:	In accordance wit	h local and national regulations.	
Cont	aminated packaging	:	: Empty containers should be taken to an approved waste handling site for recycling or disposal. In accordance with local and national regulations.		

SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards Not regulated as a dangerous	s goo	od

14.6 Special precautions for user

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Remarks		: Not classified as dangerous in the meaning of transpo regulations.			
14.7 Maritime transport in bulk according to IMO instruments					

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors	:	aluminium
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors		
This product is regulated by Regulation (EU) 2019/1148.	all	aluminium (ANNEX II)

This product is regulated by Regulation (EU) 2019/1148: all aluminium (ANNEX II) suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of other abbreviations

GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -



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Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN