according to Regulation (EC) No. 1907/2006



STANDART PC 150 Aluminium Powder

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

1.1 Product identifier		
Trade name	:	STANDART PC 150 Aluminium Powder
Product code	:	040816E30

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)

Flammable solids, Category 1 H228: Flammable solid.

Information concerning particular hazards for human and environment: Please refer to our website for further important safety instructions for handling aluminium powder:

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazaı	d pictograms	:		
Signa	al word	:	Danger	
Hazaı	d statements	:	H228	Flammable solid.
Preca	autionary statements	:	Prevention: P210 P240	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving
			P241	equipment. Use explosion-proof electrical/ ventilating/ lighting equipment.
			P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
			Response: P370 + P378	In case of fire: Use for extinction: Special powder for metal fires.
			P370 + P378	In case of fire: Use for extinction: Dry sand.

2.3 Other hazards

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	ClassificationREGUL	Concentration
	EC-No.	ATION (EC) No	(% w/w)
	Index-No.	1272/2008	
	Registration number		
aluminium powder (stabilised)	7429-90-5	Flam. Sol. 1; H228	>= 50 - <= 100
	231-072-3		
	013-002-00-1		
	01-2119529243-45		

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of first aid measures				
General advice :	Move the victim to fresh air.			
	Move out of dangerous area.			
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.			
	If on skin, rinse well with water. If on clothes, remove clothes.			
In case of eye contact :	Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. 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.			

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	: Contact with water liberates extremely flammable gas
firefighting	(hydrogen).

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Specia	for firefighters Il protective equipment fighters	:	Wear self-contain necessary.	ed breathing apparatus for firefighting if
Further information		:	Use extinguishing	re for chemical fires. measures that are appropriate to local d the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective	equipment and emergency procedures
Personal precautions :	Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation. Remove all sources of ignition.
6.2 Environmental precautions	
General advice :	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for contair	nment and cleaning up
	Use mechanical handling equipment. Do not use a vacuum cleaner.
	Do not flush with water. Keep in suitable, 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	 Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from heat. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.
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		on protection against d explosion	:	form explosive mi build up of electro container to anoth conductive hose r	
				ignition.	open flames, hot surfaces and sources of
	Hygien	e measures	:	Wash hands befo	re breaks and at the end of workday.
7.2		ons for safe storage,	inc	• • •	
		ements for storage and containers	:	with water liberate explosion-proof e containers tightly away from source closed when not i	iners and apparatuses is essential. Reaction es extremely flammable gas (hydrogen) Use equipment. Store in original container. Keep closed in a cool, well-ventilated place. Keep es of ignition - No smoking. Keep container n use. p container tightly closed in a dry and well-
				ventilated place.	Electrical installations / working materials the technological safety standards.
		r information on e conditions	:	Protect from hum	idity and water.
	Advice	e on common storage	:	Never allow prod storage. Keep away from	ther with oxidizing and self-igniting products. uct to get in contact with water during oxidizing agents, strongly alkaline and erials in order to avoid exothermic reactions.
		information on e stability	:	Keep in a dry plac No decomposition	ce. n if stored and applied as directed.
7.3	Specifie	c 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 powder (stabilised)	7429-90-5	TWA (Inhalable)	10 mg/m3	GB EH40
		TWA (Respirable fraction)	4 mg/m3	GB EH40
		TWA (inhalable dust)	10 mg/m3	GB EH40
	Further inform	nation: For the purpo	ses of these limits, respirable	e dust and

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	whe MDF resp subs cond inha any leve mus part part resp disti and mate avai to th defi cont shot	n sampling is undertaken in HS14/4 General methods fo irable, thoracic and inhalabl stance hazardous to health is centration in air equal to or g lable dust or 4 mg.m-3 8-ho dust will be subject to COSI ls. Some dusts have been a t comply with the appropriat icles of a wide range of size icular particle after entry into onse that it elicits, depend of nguishes two size fractions 'respirable'., Inhalable dust erial that enters the nose an lable for deposition in the re- ne fraction that penetrates to nitions and explanatory mate- cain components that have t- uld be complied with., Where	s of airborne dust which will b accordance with the methods r sampling and gravimetric an e aerosols., The COSHH def ncludes dust of any kind when reater than 10 mg.m-3 8-hou ur TWA of respirable dust. Th H if people are exposed to consigned specific WELs and e e limits., Most industrial dusts s. The behaviour, deposition the human respiratory system of the nature and size of the p for limit-setting purposes term approximates to the fraction of d mouth during breathing and spiratory tract. Respirable du the gas exchange region of fir rial are given in MDHS14/4., heir own assigned WEL, all the enospecific short-term exponents.	s described in halysis or inition of a n present at a ir TWA of his means that dust above these xposure to these s contain and fate of any em, and the body particle. HSE ned 'inhalable' of airborne d is therefore st approximates the lung. Fuller Where dusts he relevant limits sure limit is listed,
		TWA (Respirable dust)	n exposure limit should be us 4 mg/m3	GB EH40
	inha whe MDF resp subs cond inha any leve mus part part resp disti and mate avai to th defi cond show	her information: For the pur lable dust are those fraction n sampling is undertaken in HS14/4 General methods for irable, thoracic and inhalable stance hazardous to health iccentration in air equal to or g lable dust or 4 mg.m-3 8-ho dust will be subject to COSI ls. Some dusts have been a t comply with the appropriation icces of a wide range of size iccular particle after entry into onse that it elicits, depend of nguishes two size fractions 'respirable'., Inhalable dust erial that enters the nose an lable for deposition in the re- ne fraction that penetrates to nitions and explanatory mate- cain components that have t- uld be complied with., Where-	boses of these limits, respirate s of airborne dust which will be accordance with the methods r sampling and gravimetric and e aerosols., The COSHH definition network dust of any kind when reater than 10 mg.m-3 8-hou ur TWA of respirable dust. The H if people are exposed to consigned specific WELs and e e limits., Most industrial dusts is. The behaviour, deposition the human respiratory system of the nature and size of the provimates to the fraction of d mouth during breathing and spiratory tract. Respirable du the gas exchange region of the rial are given in MDHS14/4., heir own assigned WEL, all the no specific short-term expo-	be collected s described in halysis or inition of a n present at a r TWA of his means that dust above these xposure to these s contain and fate of any em, and the body barticle. HSE ned 'inhalable' of airborne d is therefore st approximates the lung. Fuller Where dusts he relevant limits sure limit is listed,

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

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

according to Regulation (EC) No. 1907/2006



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	(stabili	sed)	Workers	Inhalation	effects Long-term local effects	3.72 mg/m3
			Consumers	Oral	Long-term systemic effects	3.95 mg/kg

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

Substance name	Environmental Compartment	Value
aluminium powder (stabilised)	Fresh water	0.0749 mg/l
	clarification plant	20 mg/l

8.2 Exposure controls

Personal protective equipment

i electrica protectario equipint		
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. The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Skin and body protection	:	Anti-static and fire resistant protective clothing. DIN EN 11612; EN 533; EN 1149-1. Anti-static safety shoes. Dust impervious protective suit Choose body protection according to the amount and
Respiratory protection	:	concentration of the dangerous substance at the work place. Use suitable breathing protection if workplace concentration requires.
		Breathing apparatus with filter. P1 filter

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	: powder	
Colour	: silver	
Odour	: characteristic	
Odour Threshold	: No data availabl	е
Melting point/range	: >600 °C	
Boiling point/boiling range	: No data availab	le

according to Regulation (EC) No. 1907/2006



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	Flamma	ability	:	The substance of category 1.	r mixture is a flammable solid with the
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Flash p	oint	:	No data available	
	Auto-ig	nition temperature	:	340 °C	
	Decom	position temperature	:	No data available	
	рН		:	substance/mixtur	e is non-soluble (in water)
	Viscos	ity, kinematic	:	No data available	
		ity(ies) solubility ity in other solvents	:	insoluble No data available	
	Partitio octano	n coefficient: n-	:	No data available	
		pressure	:	No data available	
	Relative	e density	:	No data available	
	Density	,	:	2.5 g/cm3	
	Relative	e vapour density	:	No data available	
		e characteristics icle Size Distribution	:	No data available	
9.2		n formation a available			

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Contact with acids and alkalis may release hydrogen.

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		Stable unde	er recommended storage conditions.
		Dust may fo	orm explosive mixture in air.
	litions to avoid itions to avoid	: Heat, flame	s and sparks.
10.5 Incoi	mpatible materials		
Mater	rials to avoid	: Acids Bases Oxidizing a Water	gents
	rdous decomposition nation is not available.	products	
SECTIO	N 11: Toxicological i	nformation	
11 1 Infor	mation on hazard clas	ses as defined in	Regulation (EC) No 1272/2008
Acute	e toxicity lassified based on avail		
<u>Com</u>	ponents:		
	inium powder (stabilis e inhalation toxicity	: LC50 (Rat): Exposure tin	
-	corrosion/irritation lassified based on avai	able information.	
	ous eye damage/eye ir lassified based on avai		
Resp	iratory or skin sensiti	sation	
-	sensitisation lassified based on avai	able information.	
-	iratory sensitisation lassified based on avai	able information.	
	cell mutagenicity lassified based on avai	able information.	

Carcinogenicity

Not classified based on available information.

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-	oductive toxicity lassified based on ava	ailable information.	
	- single exposure lassified based on ava	ailable information.	
	F - repeated exposur lassified based on available		
-	ration toxicity lassified based on ava	ailable information.	
11.2 Infor	mation on other haz	ards	
Furth	er information		
<u>Prodi</u> Rema		: No data availa	ble
SECTIO	N 12: Ecological in	formation	
	city ata available		
No da 12.2 Pers i	•	bility	
No da 12.2 Persi No da 12.3 Bioa	ata available istence and degrada	-	
No da 12.2 Persi No da 12.3 Bioa No da 12.4 Mobi	ata available istence and degrada ata available ccumulative potentia	-	
 12.2 Persi No da 12.3 Bioad No da 12.4 Mobi No da 	ata available istence and degrada ata available ccumulative potentia ata available ility in soil	al	
No da 12.2 Persi No da 12.3 Bioad No da 12.4 Mobi No da 12.5 Resu <u>Produ</u>	ata available istence and degrada ata available ccumulative potentia ata available ility in soil ata available ilts of PBT and vPvE	al 3 assessment : This substance to be either pe	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of
No da 12.2 Persi No da 12.3 Bioac No da 12.4 Mobi No da 12.5 Resu <u>Produ</u> Asses 12.6 Endo	ata available istence and degrada ata available ccumulative potentia ata available ility in soil ata available ilts of PBT and vPvE uct:	al 3 assessment : This substanct to be either pe very persistent 0.1% or higher	rsistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of
No da 12.2 Persi No da 12.3 Bioac No da 12.4 Mobi No da 12.5 Resu Produ Asses 12.6 Endo No da	ata available istence and degrada ata available ccumulative potentia ata available ility in soil ata available ilts of PBT and vPvE uct: ssment	al 3 assessment : This substanct to be either pe very persistent 0.1% or higher	rsistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of

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SECTIO	N 13: Disposal consi	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 Wast	te treatment methods				
Product		:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. In accordance with local and national regulations.		
Contaminated packaging		:	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum. In accordance with local and national regulations.		

SECTION 14: Transport information

14.1 UN number or ID number						
ADR	:	UN 1309				
IMDG	:	UN 1309				
ΙΑΤΑ	:	UN 1309				
14.2 UN proper shipping name						
ADR	:	ALUMINIUM POWDER, COATED				
IMDG	:	ALUMINIUM POWDER, COATED				
ΙΑΤΑ	:	Aluminium powder, coated				
14.3 Transport hazard class(es)						
		Class Subsidiary risks				
ADR	:	4.1				
IMDG	:	4.1				
ΙΑΤΑ	:	4.1				
14.4 Packing group						
ADR						
Packing group	:	II				
Classification Code	-	F3				
Hazard Identification Number	:	40				
Labels	:	4.1				

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	Tunnel	restriction code	:	(E)	
IMDG Packing group Labels EmS Code Remarks		:	ll 4.1 F-G, S-G IMDG Code segre	egation group 15 - Powdered metals	
	Packin aircraft Packin	g instruction (LQ)	:	448 Y441 II 4.1	
	Packin (passe Packin	Passenger) og instruction onger aircraft) og instruction (LQ) og group	:	445 Y441 II 4.1	
14.5 Environmental hazards					
		nmentally hazardous	:	no	
	IMDG Marine	pollutant	:	no	

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country 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)	:	Conditions of restriction for the following entries should be considered: aluminium powder (stabilised) (Number on list 40)
Regulation (EC) No 1005/2009 on substances that	:	Not applicable

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Regu explo UK R	ete the ozone layer lation (EU) 2019/1148 sives precursors EACH List of substanc ex XIV)	C C	use of : aluminium powder (stabilised) ation : Not applicable
•	lation (EU) 2019/1148 of sives precursors	on the marketing and	use of
suspi	product is regulated by cious transactions, and d be reported to the rel	significant disappear	ances and thefts (ANNEX II)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full	text	of H-Statements
i un	ICAL	of filloutienterits

Flammable solid.

•

Full text of other abbreviations

Flam. Sol.	:	Flammable solids
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 -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



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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

Classification of the mixture:Classification procedure:Flam. Sol. 1H228Based on product data or assessment

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