according to Regulation (EC) No. 1907/2006



# STANDART Pyro UZ 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 Pyro UZ Aluminium Powder
Product code	: 047103F50
Substance name	: aluminium powder (stabilised)
EC-No.	: 231-072-3
Index-No.	: 013-002-00-1

#### 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:

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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)							
Hazard pictograms	:						
Signal word	:	Danger					
Hazard statements	:	H228	Flammable solid.				
Precautionary statements	:	Prevention: P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.				
		P240	Ground and bond container and receiving equipment.				
		P241	Use explosion-proof electrical/ventilating/ lighting equipment.				
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.				
		<b>Response:</b> 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**

3.1 Substances		
Substance name	:	aluminium powder (stabilised)
Index-No.	:	013-002-00-1
EC-No.	:	231-072-3
Chemical nature	:	Pigment

# Components

Chemical name	CAS-No.	Concentration (%	M-Factor, SCL, ATE
	EC-No.	w/w)	

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		Index-No. Registration	n number	
	aluminium powder (stabilised)	7429-90-5 231-072-3 013-002-00-	>= 50 - <= 100	
		01-2119529	9243-45	

# 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. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. If inhaled Remove to fresh air. : 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 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**

Suitable extinguishing media	:	Dry sand Special powder against metal fire
Unsuitable extinguishing	:	ABC powder

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	media			Carbon dioxide (CO2) Water Foam	
				High volume wate	r jet
5.2 \$	5.2 Special hazards arising from Specific hazards during firefighting		the :		<b>xture</b> r liberates extremely flammable gas
5.3	Advice	for firefighters			
	Special protective equipment for firefighters		:	Wear self-contained breathing apparatus for firefighting it necessary.	
	Further information		:	For safety reasons in case of fire, cans should be store separately in closed containments. Use extinguishing measures that are appropriate to loc circumstances and the surrounding environment. Use a water spray to cool fully closed containers.	

# **SECTION 6:** Accidental release measures

•	equipment and emergency procedures 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 contain	nment and cleaning up
	Use mechanical handling equipment. Do not use a vacuum cleaner.
	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

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## 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. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Advice on protection against Use explosion-proof equipment. During processing, dust may form explosive mixture in air. Take measures to prevent the fire and explosion build up of electrostatic charge. When transferring from one container to another apply earthing measures and use conductive hose material. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from open flames, hot surfaces and sources of ignition. Hygiene measures Wash hands before breaks and at the end of workday. : 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage Earthing of containers and apparatuses is essential. Reaction : areas and containers with water liberates extremely flammable gas (hydrogen) Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use. No smoking. Keep container tightly closed in a dry and wellventilated place. Electrical installations / working materials must comply with the technological safety standards. Further information on Protect from humidity and water. storage conditions 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 : Keep in a dry place.

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storage stability

No decomposition if stored and applied as directed.

### 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 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
	inhalable dust when samplin MDHS14/4 Ge respirable, the substance has concentration inhalable dust any dust will b levels. Some must comply particles of a particular part response that distinguishes and 'respirable material that e available for o to the fraction definitions and contain comp should be cor	are those fractions g is undertaken in a eneral methods for s pracic and inhalable zardous to health ind in air equal to or gre or 4 mg.m-3 8-hour be subject to COSHH dusts have been as with the appropriate wide range of sizes. icle after entry into the it elicits, depend on two size fractions for e'., Inhalable dust ap enters the nose and leposition in the resp that penetrates to the d explanatory material onents that have the nplied with., Where r	ses of these limits, respirable of airborne dust which will be ccordance with the methods ampling and gravimetric ana aerosols., The COSHH defir cludes dust of any kind when eater than 10 mg.m-3 8-hour TWA of respirable dust. This if people are exposed to du signed specific WELs and ex- limits., Most industrial dusts The behaviour, deposition a he human respiratory system the nature and size of the pa- r limit-setting purposes termed proximates to the fraction of mouth during breathing and iratory tract. Respirable dus he gas exchange region of the al are given in MDHS14/4., N ir own assigned WEL, all the no specific short-term exposi- exposure limit should be use 4 mg/m3	e collected described in lysis or nition of a present at a TWA of s means that ust above these posure to these contain nd fate of any n, and the body article. HSE ed 'inhalable' airborne is therefore t approximates ne lung. Fuller Where dusts e relevant limits ure limit is listed,
			ses of these limits, respirable	
	when samplin MDHS14/4 Ge respirable, the substance has concentration inhalable dust	g is undertaken in a eneral methods for s pracic and inhalable zardous to health inc in air equal to or gre or 4 mg.m-3 8-hour	of airborne dust which will be ccordance with the methods ampling and gravimetric ana aerosols., The COSHH defir cludes dust of any kind when eater than 10 mg.m-3 8-hour TWA of respirable dust. This I if people are exposed to du	described in lysis or nition of a present at a TWA of s means that

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	must partic partic respond distin and 'u mate availa to the defin conta shoul	comply with the appro- cles of a wide range of cular particle after entry onse that it elicits, depending aguishes two size fraction respirable'., Inhalable of rial that enters the nos able for deposition in the e fraction that penetrate itions and explanatory ain components that had d be complied with., W	een assigned specific WELs and exposure to these priate limits., Most industrial dusts contain sizes. The behaviour, deposition and fate of any v into the human respiratory system, and the body end on the nature and size of the particle. HSE ions for limit-setting purposes termed 'inhalable' dust approximates to the fraction of airborne e and mouth during breathing and is therefore he respiratory tract. Respirable dust approximates es to the gas exchange region of the lung. Fuller material are given in MDHS14/4., Where dusts we their own assigned WEL, all the relevant limits where no specific short-term exposure limit is listed, g-term exposure limit should be used.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
aluminium powder (stabilised)	Workers	Inhalation	Long-term systemic effects	3.72 mg/m3
	Workers	Inhalation	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				
Eye/face protection	:	Face-shield Tightly fitting safety goggles		
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		
		concentration of the dangerous substance at the work place.		
Respiratory protection	:	Use suitable breathing protection if workplace concentration requires.		

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			Breathing appar P1 filter	ratus with filter.
SECTIO	N 9: Physical and che	emic	al properties	
9.1 Inforn	nation on basic physica	ıl an	d chemical prop	perties
Form	I	:	powder	
Colo	ur	:	silver	
Odou	ır	:	characteristic	
Odou	ur Threshold	:	No data availab	ble
Melti	ng point/range	:	> 600 °C	
Boilir	ng point/boiling range	:	No data availab	ble
Flam	mability	:	The substance category 1.	or mixture is a flammable solid with the
	er explosion limit / Upper nability limit	:	No data availab	ble
	er explosion limit / Lower nability limit	:	30 g/m3	
Flash	n point	:	No data availab	ble
Auto	-ignition temperature	:	340 °C	
Deco	omposition temperature	:	No data availab	ble
pН		:	substance/mixt	ure is non-soluble (in water)
Visco	osity, kinematic	:	No data availab	ble
Wate	oility(ies) r solubility oility in other solvents	:	insoluble No data availab	ble
	tion coefficient: n-	:	No data availab	ble
	nol/water our pressure	:	No data availab	ble
Relat	ive density	:	No data availab	ble
Dens	ity	:	2.5 g/cm3	
Relat	ive vapour density	:	No data availab	ble

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	cle characteristics article Size Distribution	: No data availal	ble
	<b>information</b> ata available		
SECTIO	N 10: Stability and re	activity	
<b>10.1 Reac</b> No de	<b>tivity</b> ecomposition if stored a	nd applied as directed	d.
	nical stability ecomposition if stored a	nd applied as directed	d.
10.3 Poss	ibility of hazardous re	actions	
Hazaı	dous reactions	: Contact with a	cids and alkalis may release hydrogen.
		No decomposi	ition if stored and applied as directed.
		Dust may form	explosive mixture in air.
10.4 Conc	litions to avoid		
Cond	itions to avoid	: Heat, flames a	nd sparks.
10.5 Incoi	mpatible materials		
	ials to avoid	: Acids Bases Oxidizing agen Water	its
10.6 Haza	rdous decomposition	products	
This inform	mation 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.

Product:		
Acute inhalation toxicity	:	LC50 (Rat): > 888 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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<u>Compo</u>	onents:			

## aluminium powder (stabilised):

Acute inhalation toxicity	:	LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist
		lest atmosphere: dust/mist

#### 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.

# Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

Not classified based on available information.

#### STOT - repeated exposure

Not classified based on available information.

# Aspiration toxicity

Not classified based on available information.

#### 11.2 Information on other hazards

### Further information

# Product:

Remarks

: No data available

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

No data available

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	istence and degradabi	lity		
	<b>ccumulative potential</b> ata available			
	i <b>lity in soil</b> ata available			
12.5 Resu	llts of PBT and vPvB a	sse	ssment	
Prod Asse	<u>uct:</u> ssment	:	to be either persis	ixture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
	ocrine disrupting propo ata available	ertie	S	
12.7 Othe	r adverse effects			
<u>Prod</u> Addit	<u>uct:</u> ional ecological nation	:	No data available	
Prod Addit inforr	ional ecological			
Prod Addit inforr SECTIO	ional ecological nation		ations	articulates and dust (including ball-mill dust ous substances
Prod Addit inforr SECTIO	ional ecological nation N 13: Disposal consi		<b>ations</b> 10 03 21 - other p	· •
Prod Addit inforr SECTIO	ional ecological nation N 13: Disposal consi Dean Waste Catalogue Se treatment methods		ations 10 03 21 - other p containing hazard Do not dispose of Do not contamina chemical or used	ous substances waste into sewer. te ponds, waterways or ditches with

## 14.1 UN number or ID number

ADR	:	UN 1309
IMDG	:	UN 1309

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ΙΑΤΑ		:	UN 1309			
14.2 UN pi	roper shipping name					
ADR		:	ALUMINIUM PO	DWDER, COATED		
IMDG		:	: ALUMINIUM POWDER, COATED			
ΙΑΤΑ		:	: Aluminium powder, coated			
14.3 Trans	port hazard class(es)					
			Class	Subsidiary risks		
ADR		:	4.1			
IMDG		:	4.1			
ΙΑΤΑ		:	4.1			
14.4 Packi	ng group					
Classi Hazaro Labels	ng group fication Code d Identification Number s I restriction code	:	II F3 40 4.1 (E)			
IMDG Packir Labels EmS ( Rema	ng group s Code	:	ll 4.1 F-G, S-G IMDG Code seg	gregation group 15 - Powdered metals		
	<b>(Cargo)</b> ng instruction (cargo t)	:	448			
Packiı Packiı	ng instruction (LQ) ng group	:	Y441 II			
Labels		:	4.1			
Packir	(Passenger) ng instruction enger aircraft)	:	445			
	ng instruction (LQ) ng group S	:	Y441 II 4.1			
14.5 Envir	onmental hazards					
<b>ADR</b> Enviro	nmentally hazardous	:	no			
IMDG	e pollutant	:	no			



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#### 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: Number on list 40 aluminium powder (stabilised) (Number on list 40)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	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 powder (stabilised)
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 powder (stabilised) suspicious transactions, and significant disappearances and thefts (ANNEX II) 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)



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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AllC - 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 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