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SECTION 1. IDENTIFICATION

Product name Product code	:	STANDART PCU 5000 Aluminium Powder 041244EP0
Manufacturer or supplier's	deta	ils
Company name of supplier	:	ECKART America Corporation
Address	:	830 East Erie Street
		Painesville OH 44077
Telephone	:	866-458-7837
		(440) 954-7600
Telefax	:	(440) 354-6224
e-mail adresse	:	info.eckart.america.oh@altana.com
Emergency telephone	:	CHEMTREC: 800-424-9300
		CHEMTREC: 1-703-527-3387 (International)
		NCEC:
		(contract no. ECKART29003-NCEC)
		US: +1 866 928 0789 (Toll free)
		Canada: +1 800 579 7421 (Toll Free)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Mexico: +52 55 5004 8763

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards

None known.

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

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum	7429-90-5	>= 70 - < 90
Silica	7631-86-9	>= 5 - < 10





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Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Take the victim into fresh air. Do not leave the victim unattended.
If inhaled	:	Remove to fresh air.
		If unconscious, place in recovery position and seek medical advice.
		lf 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.
Most important symptoms and effects, both acute and delayed	:	None known.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media	:	Dry sand Special powder against metal fire ABC powder Carbon dioxide (CO2) Water Foam
Specific hazards during fire fighting	:	Contact with water liberates extremely flammable gas (hydrogen).
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.
General advice	:	The product should not be allowed to enter drains, water courses or the soil. If the product contaminates rivers and lakes or drains inform

SAFETY DATA SHEET



STANDART PCU 5000 Aluminium Powder

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E	Environ	mental precautions	:	respective author The product shou courses or the so	uld not be allowed to enter drains, water	
				If the product cor respective author	taminates rivers and lakes or drains inform ities.	
		s and materials for ment and cleaning up	:	Use mechanical I Do not use a vac	nandling equipment. uum cleaner.	
				Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.		
SECT	FION 7.	HANDLING AND ST	OR/	AGE		
		on protection against explosion	:	Take measures to Earthing of conta Use explosion-pr When transferring	g, dust may form explosive mixture in air. o prevent the build up of electrostatic charge. iners and apparatuses is essential. oof equipment. g from one container to another apply s and use conductive hose material.	
				Provide appropria is formed.	ate exhaust ventilation at places where dust	
F	Advice on safe handling		:	dusts do not accu Keep away from Do not smoke. For personal prot Smoking, eating a	ist. eping should be instituted to ensure that umulate on surfaces. heat and sources of ignition. rection see section 8. and drinking should be prohibited in the	
	Conditio	ons for safe storage al	:	(hydrogen) Store in original c Keep containers t Keep container cl Keep away from t Electrical installat	tightly closed in a cool, well-ventilated place. losed when not in use. sources of ignition - No smoking. tions / working materials must comply with safety standards.	
r	measure	es/Precautions ls to avoid	:	Do not store toge	ther with oxidizing and self-igniting products. uct to get in contact with water during	







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		strongly acid m	om oxidizing agents, strongly alkaline and naterials in order to avoid exothermic reactions. o be especially mentioned.

Further information on : Keep in a dry place. storage stability

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (Respirable particulate matter)	1 mg/m3	ACGIH
		TWA	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Total)	15 mg/m3 (Aluminum)	OSHA P0
		TWA (Respirable fraction)	5 mg/m3 (Aluminum)	OSHA P0
		TWA (total dust)	15 mg/m3 (Aluminum)	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3 (Aluminum)	OSHA Z-1

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			TWA (Total dust)	15 mg/m3 (Aluminum)	OSHA P0
			TWA (respirable dust fraction)	5 mg/m3 (Aluminum)	OSHA P0
			TWA (welding fumes)	5 mg/m3 (Aluminum)	NIOSH REL
			TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
			TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
			TWA (Fumes)	5 mg/m3	OSHA P0
			TWA (powder)	5 mg/m3 (Aluminum)	OSHA P0
Silica	I	7631-86-9	TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3

	particles per cubic foot (Silica)	
TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
TWA	6 mg/m3 (Silica)	NIOSH REL

Personal protective equipn	ıt	
Respiratory protection	 Use suitable breathing protection if workplace concentration requires. Breathing apparatus with filter. P1 filter No personal respiratory protective equipment normally required. 	n
Hand protection		
Material	Leather	
Glove length	Long sleeve gloves	
Remarks	Leather gloves The choice of an appropriate glove does no only depend on its material but also on other quality feature and is different from one producer to the other.	
Eye protection	Face-shield Safety glasses	
Skin and body protection	Anti-static and fire resistant protective clothing. DIN EN	



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Hugio	ene measures		Protective suit	EN 1149-1; Anti-static safety shoes ial hygiene practice.
	9. PHYSICAL AND CHI			
			powder	
Color	arance	:	silver	
Odor		:	characteristic	
	Threshold		No data availat	ble
pH		÷		ture is non-soluble (in water)
•	ng point/ range	:	660 °C	
		:	Not applicable	
	point	:	Not applicable	
	oration rate	:	No data availat	
Flamr	mability (solid, gas)	:	Combustible S	olids
	r explosion limit / Upper nability limit	:	No data availat	ble
	r explosion limit / Lower nability limit	:	30 g/m3	
Vapo	r pressure	:	No data availat	ble
	ve density	:	No data availat	ble
Densi	ity	:	2.5 g/cm3	
Solub	density pility(ies)	:	0.25 - 0.45 g/c	m3
	ater solubility	:	insoluble	
	ion coefficient: n- ol/water	:	No data availat	ble
	gnition temperature	:	340 °C	
	mposition temperature	:	No data availat	
Visco	sity	:	No data availat	ble

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. Contact with acids and alkalis may release hydrogen. Stable under recommended storage conditions. Dust may form explosive mixture in air.
Conditions to avoid Incompatible materials	:	No data available Acids Bases



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		Oxidizing age Water	nts
SECTION	11. TOXICOLOGICA		
	e toxicity lassified due to lack o	f data.	
<u>Com</u>	ponents:		
Silica Acute	a: e oral toxicity	: LD50 (Rat): >	5,000 mg/kg
		(Mouse): 15,0	00 mg/kg
Acute	inhalation toxicity	: (Rat): 0.139 n Exposure time	-
Acute	e dermal toxicity	: LD50 (Rabbit):	> 5,000 mg/kg
	corrosion/irritation lassified due to lack o	f data.	
	ous eye damage/eye		

Not classified due to lack of data.

Respiratory or skin sensitization

Skin sensitization

Not classified due to lack of data.

Respiratory sensitization

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
NTP	No ingredient of this product present at levels greater than or





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		equal to 0.1% is i by NTP.	identified as a known or anticipated carcinog en
-	oductive toxicity lassified due to lack of	data.	
	T-single exposure classified due to lack of	data.	
	T-repeated exposure classified due to lack of	data.	
-	ration toxicity classified due to lack of	data.	
Furth	ner information		
SECTION	12. ECOLOGICAL IN	FORMATION	
Ecot	oxicity		
<u>Com</u>	ponents:		
	a: sity to daphnia and othe tic invertebrates	r : (Daphnia): 7,6	600 mg/l
	city to algae	: (Chlorella pyr	enoidosa): 440 mg/l
	istence and degradabi ata available	ility	
	ccumulative potential ata available		
	r adverse effects ata available		
<u>Com</u>	ponents:		

Silica:

Additional ecological : No data available information

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Contaminated packaging

: Empty containers should be taken to an approved waste handling site for recycling or disposal.







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SECTION 14. TRANSPORT INFORMATION

Domestic regulation	
49 CFR Not regulated as a dang	gerous good
49 CFR	: Not classified as dangerous in the meaning of transport regulations.
International Regulation	ons
UNRTDG Not regulated as a dang	gerous good
IATA-DGR Not regulated as a dang	gerous good
IMDG-Code Not regulated as a dang	gerous good
Remarks	 Not classified as dangerous in the meaning of transport regulations.
ADR	: Not classified as dangerous in the meaning of transport regulations.
IATA-DGR	: Not classified as dangerous in the meaning of transport regulations.
IMDG-Code	: Not classified as dangerous in the meaning of transport regulations.
Not dangerous goods i	in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



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SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	:	No SARA Hazards		
SARA 313	:	The following component established by SARA Title	,	1 0
		Aluminum	7429-90-5	>= 70 - < 90 %

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307 This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massach	usetts Right To Know	
	Aluminum	7429-90-5
	Silica	7631-86-9
Pennsylv	vania Right To Know	
	Aluminum	7429-90-5
	Kein gefährlicher Stoff laut GHS.	Not Assigned
	Silica	7631-86-9
	2-Propenoic acid, 2-methyl-, 3-(trimethoxysilyl)propyl ester	2530-85-0

California Prop. 65





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WARNING: This product can expose you to chemicals including lead and cadmium, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California List of Hazardous Substances Aluminum	7429-90-5
Silica	7631-86-9
California Permissible Exposure Limits for Chemical Contaminants Aluminum	7429-90-5
Silica	7631-86-9

The ingredients of this product are reported in the following inventories:

DSL	:	All components of this product are on the Canadian DSL
TSCA	:	All substances listed as active on the TSCA inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)			
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits			
OSHA PO	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)			
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants			
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts			
ACGIH / TWA	:	8-hour, time-weighted average			
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek			
OSHA P0/TWA	:	8-hour time weighted average			
OSHA Z-1 / TWA		8-hour time weighted average			
OSHA Z-3 / TWA	:	8-hour time weighted average			



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AllC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level: NOELR - No Observable Effect Loading Rate: NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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The information provided in this Material 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.

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