



Version	Revision Date:	SDS Number:	Date of last issue: 12/09/2019
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#### **SECTION 1. IDENTIFICATION**

Product name Product code	:	STANDART PC 20 Aluminium Powder 049114E30
Manufacturer or supplier's de	eta	ails
Company name of supplier Address		ECKART America Corporation 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)
		Mexico: +52 55 5004 8763

#### SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Flammable solids	:	Category 1		
Combustible dust				
GHS label elements				
Hazard pictograms	:			
Signal Word	:	Danger		
Hazard Statements	:	H228 Flammabl May form comb	e solid. ustible dust concentrations in air.	
Precautionary Statements	:	Prevention:		
		P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.	
		1 / 1	0	



### SAFETY DATA SHEET



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		P240	Ground/bond container and receiving
		P241	equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment.
		P280	Wear protective gloves/ eye protection/ face protection.
		Response:	
		P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

#### 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	>= 90 - <= 100			
Actual concentration is withheld as a trade secret					

concentration is withheld as a trade secret

#### **SECTION 4. FIRST AID MEASURES**

:	Take the victim into fresh air. Move out of dangerous area.
:	If unconscious, place in recovery position and seek medical advice.
:	If symptoms persist, call a physician. Wash off immediately with soap and plenty of water. If on skin, rinse well with water.
:	
	Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
:	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. None known.
	:





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and effects, both acute and delayed

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire	:	Dry sand Special powder against metal fire ABC powder Carbon dioxide (CO2) Water Foam Contact with water liberates extremely flammable gas
fighting Further information	:	(hydrogen). Standard procedure for chemical fires. 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. Remove all sources of ignition.
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.
Environmental precautions	:	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.
Methods and materials for containment 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.







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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Use explosion-proof equipment. During processing, dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. When transferring from one container to another apply earthing measures and use conductive hose material.
		Keep away from open flames, hot surfaces and sources of ignition.
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
Conditions for safe storage	:	regulations. Earthing of containers and apparatuses is essential. Reaction 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 well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Technical measures/Precautions Materials to avoid	:	Protect from humidity and water. 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.







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### 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
		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





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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

Personal protective equipr	ent
Respiratory protection	<ul> <li>Use suitable breathing protection if workplace concentration requires.</li> <li>Breathing apparatus with filter.</li> <li>P1 filter</li> </ul>
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.
Eye protection	: Face-shield Safety glasses
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.
Hygiene measures	: Wash hands before breaks and at the end of workday.

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance Color Odor Odor Threshold pH Melting point/ range	:	powder silver characteristic No data available substance/mixture is non-soluble (in water) > 600 °C
Initial boiling point and boiling range	:	No data available





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Eva	sh point aporation rate mmability (solid, gas)	<ul> <li>No data availab</li> <li>No data availab</li> <li>The substance category 1.</li> </ul>	le or mixture is a flammable solid with the
flar Lov flar Va Re	per explosion limit / Upper mmability limit wer explosion limit / Lower mmability limit por pressure lative density nsity	<ul> <li>No data availab</li> <li>30 g/m3</li> <li>No data availab</li> <li>No data availab</li> <li>2.5 g/cm3</li> </ul>	le
Pa oct	lubility(ies) Water solubility rtition coefficient: n- anol/water toignition temperature	: insoluble : No data availab : 340 °C	le
	composition temperature cosity	<ul><li>No data availab</li><li>No data availab</li></ul>	

#### 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	:	Heat, flames and sparks. Acids Bases Oxidizing agents Water

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Skin corrosion/irritation

Not classified due to lack of data.





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	ious eye damage/eye irr classified due to lack of d		
Re	spiratory or skin sensitiz	ation	
_	n sensitization classified due to lack of d	ata.	
	spiratory sensitization classified due to lack of d	ata.	
	r <b>m cell mutagenicity</b> classified due to lack of d	ata.	
	<b>cinogenicity</b> classified due to lack of d	ata.	
IAI	RC	5	product present at levels greater than or ntified as probable, possible or confirmed by IARC.
05	ΉA		is product present at levels greater than or OSHA's list of regulated carcinogens.
NT	Р		product present at levels greater than or ntified as a known or anticipated carcinogen

#### Reproductive toxicity

Not classified due to lack of data.

### STOT-single exposure

Not classified due to lack of data.

### STOT-repeated exposure

Not classified due to lack of data.

#### Aspiration toxicity

Not classified due to lack of data.

**Further information** 

### **SECTION 12. ECOLOGICAL INFORMATION**

Ecotoxicity

No data available





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Persistence and degradability

No data available

**Bioaccumulative potential** 

No data available

Other adverse effects

No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal	methods
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Waste from residues	:	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**

#### **Domestic regulation**

49 CFR		
UN/ID/NA number	:	UN 1309
Proper shipping name	:	Aluminum powder, coated
Class	:	4.1
Packing group	:	II
Labels	:	FLAMMABLE SOLID
ERG Code	:	170
Marine pollutant	:	no
International Regulations		
IATA-DGR		
UN/ID No.	:	UN 1309
UN/ID No. Proper shipping name	:	UN 1309 Aluminium powder, coated
	:	
Proper shipping name	:	Aluminium powder, coated
Proper shipping name Class	:	Aluminium powder, coated 4.1
Proper shipping name Class Packing group		Aluminium powder, coated 4.1 II
Proper shipping name Class Packing group Labels		Aluminium powder, coated 4.1 II Flammable Solid
Proper shipping name Class Packing group Labels Packing instruction (cargo		Aluminium powder, coated 4.1 II Flammable Solid



IMDG\_Code



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INDG-Code		
UN number	:	UN 1309
Proper shipping name	:	ALUMINIUM POWDER, COATED
Class	:	4.1
Packing group	:	II
Labels	:	4.1
EmS Code	:	F-G, S-G
Marine pollutant	:	no
Remarks	:	IMDG Code segregation group 15 - Powdered metals

#### 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.

#### 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	:	Flammable (gases, aerose Combustible dust	ols, liquids, or sol	lids)
SARA 313	:	The following components are subject to reporting levels established by SARA Title III, Section 313:		
		Aluminum	7429-90-5	>= 90 - <= 100 %

#### 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).



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#### **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** Massachusetts Right To Know Aluminum 7429-90-5 Pennsylvania Right To Know Aluminum 7429-90-5 California Prop. 65 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 California Permissible Exposure Limits for Chemical Contaminants Aluminum 7429-90-5 The ingredients of this product are reported in the following inventories: DSL : All components of this product are on the Canadian DSL : All substances listed as active on the TSCA inventory TSCA **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



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OSHA	<b>V P0</b>	: USA. Table Z-1	-A Limits for Air Contaminants (1989 vacated
		values)	
OSHA	X Z-1	Limits for Air Co	onal Exposure Limits (OSHA) - Table Z-1 ontaminants
OSHA	x Z-3	: USA. Occupation Mineral Dusts	onal Exposure Limits (OSHA) - Table Z-3
ACGI	H / TWA	: 8-hour, time-we	ighted average
	H REL / TWA	: Time-weighted	average concentration for up to a 10-hour a 40-hour workweek
OSHA	P0 / TWA	: 8-hour time wei	
	Z-1 / TWA	: 8-hour time wei	
	Z-3 / TWA Australian Inventory	: 8-hour time weig of Industrial Chemic	gnted average als; ASTM - American Society for the Testing of
Germa Substa Hazar ENCS growth - Good Agend Code maxim of Exia Interna Interna Lethal (Media MSHA Fire P Obser Toxico Econo Preve Chem - Res Europ Restri Tempo	an Institute for Stand ances List (Canada); dous Substance; ELx - 6 - Existing and New C n rate response; ERG - d Laboratory Practice; cy for Research on Cal for the Construction an nal inhibitory concentra sting Chemical Substa ational Maritime Orga ational Organisation fo Concentration to 50 % an Lethal Dose); MARF A - Mine Safety and He rotection Association; I ved (Adverse) Effect I ology Program; NZIOC omic Co-operation and ntion; PBT - Persistent, icals and Chemical Sul ource Conservation a ean Parliament and of ction of Chemicals; F erature; SARA - Super - Taiwan Chemical Sub	lardisation; DOT - ECx - Concentration Loading rate associa hemical Substances Emergency Respons HMIS - Hazardous M Incer; IATA - Internation d Equipment of Ships tion; ICAO - Internation nization; ISHL - Internation r Standardization; KE 6 of a test population POL - International Co ealth Administration; NO(A)EC - No Obser Level; NOELR - No 5 - New Zealand In d Development; OP Bioaccumulative and ostances; (Q)SAR - ( ind Recovery Act; F the Council concern RQ - Reportable Qu fund Amendments an stance Inventory; TE	or Reproductive Toxicant; DIN - Standard of the Department of Transportation; DSL - Domestic associated with x% response; EHS - Extremely ted with x% response; EmS - Emergency Schedule; (Japan); ErCx - Concentration associated with x% e Guide; GHS - Globally Harmonized System; GLP laterials Identification System; IARC - International onal Air Transport Association; IBC - International carrying Dangerous Chemicals in Bulk; IC50 - Half onal Civil Aviation Organization; IECSC - Inventory - International Maritime Dangerous Goods; IMO - dustrial Safety and Health Law (Japan); ISO - ECI - Korea Existing Chemicals Inventory; LC50 - n; LD50 - Lethal Dose to 50% of a test population onvention for the Prevention of Pollution from Ships; n.o.s Not Otherwise Specified; NFPA - National ved (Adverse) Effect Concentration; NO(A)EL - No Observable Effect Loading Rate; NTP - National ventory of Chemicals; OECD - Organization for PTS - Office of Chemical Safety and Pollution d Toxic substance; PICCS - Philippines Inventory of Quantitative) Structure Activity Relationship; RCRA REACH - Regulation (EC) No 1907/2006 of the ing the Registration, Evaluation, Authorisation and Jantity; SADT - Self-Accelerating Decomposition and Reauthorization Act; SDS - Safety Data Sheet; CI - Thailand Existing Chemicals Inventory; TSCA - UN - United Nations; UNRTDG - United Nations

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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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