

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	12/09/2019	102000030772	Date of first issue: 04/02/2019

SECTION 1. IDENTIFICATION

Product name Product code	:	STANDART CHROMAL VIII Aluminium Powder 049113E30
Manufacturer or supplier's d	eta	ils
Company name of supplier	:	ECKART America Corporation
Address	:	830 East Erie Street
		Painesville OH 44077
Telephone	:	866-458-7837
Telefax	:	(440) 354-6224
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 accord	land	ce with 29 CFR 1	910.1200
Flammable solids	:	Category 1	
Combustible dust			
GHS label elements			
Hazard pictograms	:		
Signal Word	:	Danger	
Hazard Statements	:	H228 Flammable May form combi	e solid. ustible dust concentrations in air.
Precautionary Statements	:	Prevention:	
		P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
		P240	Ground/bond container and receiving equipment.
		P241	Use explosion-proof electrical/ventilating/
 		1 / 10	





Version 2.0	Revision Date: 12/09/2019	SDS Number: 102000030772	Date of last issue: - Date of first issue: 04/02/2019
		P280	lighting/ equipment. Wear protective gloves/ eye protection/ face 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.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Aluminum	7429-90-5	>= 90 - <= 100

SECTION 4. FIRST AID MEASURES

General advice	Take the victim into fresh air. Move out of dangerous area.	
If inhaled	If unconscious, place in recovery position and seek medica advice.	1
In case of skin contact	If symptoms persist, call a physician. 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.	
Most important symptoms and effects, both acute and delayed	None known.	

SECTION 5. FIRE-FIGHTING MEASURES

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



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Versio 2.0	n Revision Date: 12/09/2019	-	OS Number: 2000030772	Date of last issue: - Date of first issue: 04/02/2019
m	edia		Carbon dioxide (C Water	:02)
	pecific hazards during fire ghting	:	Foam Contact with wate (hydrogen).	r liberates extremely flammable gas
Fu	urther information	:	Use extinguishing	re for chemical fires. measures that are appropriate to local d the surrounding environment.
	pecial protective equipment or fire-fighters	: :	Wear self-contain necessary.	ed breathing apparatus for firefighting if
SECTI	ON 6. ACCIDENTAL RELE	EAS	E MEASURES	
рі	ersonal precautions, rotective equipment and mergency procedures	:	Use personal prot Evacuate personr Avoid dust format Remove all source	iel to safe areas. ion.

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

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.

respective authorities.

SECTION 7. HANDLING AND STORAGE

Environmental precautions

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.
		2/12





Version 2.0	Revision Date: 12/09/2019	SDS Num 10200003		Date of last issue: - Date of first issue: 04/02/2019				
Cor	nditions for safe storage	For p Smok applic Dispo regula : Earth React (hydru Use e Store Keep Keep Keep No sr	 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. 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 container closed when not in use. 					
mea	Technical measures/Precautions Materials to avoid		ical installa chnological ct from hum ot store toge allow prod ge. away from	ghtly closed in a dry and well-ventilated tions / working materials must comply with safety standards. idity and water. ether 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.				
	ther information on rage stability	: Keep	in a dry pla	ce.				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

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

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ersion 0	Revision Date: 12/09/2019			Date of last issue: - Date of first issue: 04/02/2019			
			(respirable fraction)				
			TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3		
			TWA (Respirable fraction)	1 mg/m3	ACGIH		
			TWA	5 mg/m3 (Aluminum)	NIOSH REI		
			TWA (Total)	15 mg/m3 (Aluminum)	OSHA PO		
			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 REI		
			TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REI		
			TWA (Respirable fraction)	1 mg/m3 (Aluminum)	ACGIH		
			TWA (Fumes)	5 mg/m3	OSHA P0		

Respiratory protection	:	Use suitable breathing protection if workplace concentration requires. Breathing apparatus with filter. P1 filter
Hand protection Material Glove length	:	Leather Long sleeve gloves





Vers 2.0	ion	Revision Date: 12/09/2019	SDS Number: Date of last issue: - 102000030772 Date of first issue: 0	14/02/2019
Remarks		narks	: 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 ar	nd 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 pla 	
	Hygien	e measures	: Wash hands before breaks and at the	end of workday.
SEC	TION 9	. PHYSICAL AND CHE	MICAL PROPERTIES	
	Appear Color Odor Odor Ti	ance	 powder silver odorless No data available 	
	-	point/freezing point oiling point and boiling	No data availableNo data availableNo data available	
	Flash p	ooint ration rate	No data availableNo data available	
		ability (solid, gas)	 The substance or mixture is a flamma category 1. 	ble solid with the
			combustible dust	
		explosion limit / Upper ability limit	: No data available	
	Lower e	explosion limit / Lower ability limit	: No data available	
	Vaporp	oressure	: No data available	
	Relative Density	e density /	No data available2.5 g/cm3	
	Partitio octano	er solubility n coefficient: n-	 insoluble No data available 340 °C 	
	5			





Version 2.0	Revision Date: 12/09/2019	SDS Number: 102000030772	Date of last issue: - Date of first issue: 04/02/2019	
Decc Visco	omposition temperature osity	: No data availal : No data availal		
SECTION	10. STABILITY AND R	EACTIVITY		
	nical stability sibility of hazardous	: No decomposi : Contact with a Stable under re	ition if stored and applied as directed. ition if stored and applied as directed. cids and alkalis may release hydrogen. ecommended storage conditions. explosive mixture in air.	
	litions to avoid npatible materials	 Heat, flames and sparks. Acids Bases Oxidizing agents Water 		
SECTION	11. TOXICOLOGICAL	INFORMATION		
Acut	e toxicity			
Not c	classified based on avail	able information.		
	corrosion/irritation	able information.		
	bus eye damage/eye in classified based on avail			
Resp	piratory or skin sensitiz	ation		
	sensitization	able information.		
-	iratory sensitization classified based on avail	able information.		
	n cell mutagenicity classified based on avail	able information.		
	inogenicity classified based on avail	able information.		
IAR	C		nis product present at levels greater than or	





Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	12/09/2019	102000030772	Date of first issue: 04/02/2019

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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.

Further information

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

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.





Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	12/09/2019	102000030772	Date of first issue: 04/02/2019

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code Marine pollutant	:	UN 1309 Aluminum powder, coated 4.1 II Division 4.1 - Flammable solids 170 no
International Regulations		
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)		UN 1309 Aluminium powder, coated 4.1 II Division 4.1 - Flammable solids 448 445
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant Remarks		UN 1309 ALUMINIUM POWDER, COATED 4.1 II 4.1 F-G, S-G no 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.



Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	12/09/2019	102000030772	Date of first issue: 04/02/2019

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	:	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).

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

US State Regulations

Massachusetts Right To Know Aluminum	7429-90-5
Pennsylvania Right To Know Aluminum	7429-90-5
Fatty acids, C16-18	67701-03-5

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.



Version 2.0	Revision Date: 12/09/2019	SDS Number: 102000030772	Date of last issue: - Date of first issue: 04/02/2019			
Califo	ornia List of Hazardo Aluminum	ous Substances	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
TSCA	: On 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	
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ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
		1910.1000
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

AICS - Australian Inventory of Chemical Substances; 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



Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	12/09/2019	102000030772	Date of first issue: 04/02/2019

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; 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

Revision Date

: 12/09/2019

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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