

Version	Revision Date:	SDS Number:	Date of last issue: 12/11/2019
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SECTION 1. IDENTIFICATION

Product name Product code	:	1-231 ATOMIZED POWDER 046219BU0		
Manufacturer or supplier's o	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)		
		Mexico: +52 55 5004 8763		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Combustible dust
GHS label elements

Signal Word	:	Warning
Hazard Statements	:	May form combustible dust concentrations in air.

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



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

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Take the victim into fresh air. No hazards which require special first aid measures.
lf inhaled	:	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 delaved	:	None known.

SECTION 5. FIRE-FIGHTING MEASURES

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

emergency procedures General advice		Avoid dust formation. The product should not be allowed to enter drains, water
Personal precautions, protective equipment and	:	Use personal protective equipment. Evacuate personnel to safe areas.



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E	Environn	nental precautions	:	courses or the so The product shou courses or the so	Id not be allowed to enter drains, water	
	Methods and materials for containment and cleaning up		:	Use mechanical handling equipment. Do not use a vacuum cleaner.		
		Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal.				

SECTION 7. HANDLING AND STORAGE

Advice on protection against : fire and explosion	During processing, dust may form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. Earthing of containers and apparatuses is essential. Use explosion-proof equipment. When transferring from one container to another apply earthing measures and use conductive hose material.
	Normal measures for preventive fire protection.
Advice on safe handling :	Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat and sources of ignition. Do not smoke. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage :	Reaction with water liberates extremely flammable gas (hydrogen) Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking. Electrical installations / working materials must comply with the technological safety standards.
Technical : measures/Precautions	Protect from humidity and water.
Materials to avoid :	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.



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Further information on storage stability

: Keep in a dry place.

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 (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		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
		TWA (Fumes)	5 mg/m3	OSHA PO
		TWA (pyro powders)	5 mg/m3 (Aluminum)	NIOSH REL
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
		TWA (powder)	5 mg/m3 (Aluminum)	OSHA P0

Personal protective equipment

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



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Re	emarks	only depend on	The choice of an appropriate glove does not its material but also on other quality features from one producer to the other.
Eye p	protection	: Face-shield Safety glasses	
Skin a	and body protection	: Anti-static and f	ire resistant protective clothing. DIN EN EN 1149-1; Anti-static safety shoes
Hygie	ene measures		ial hygiene practice.

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) 660 °C
Boiling point/boiling range	:	140 - 200 °C
Flash point Evaporation rate Flammability (solid, gas)	:	No data available No data available Combustible Solids
		combustible dust
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	30 g/m3
Vapor pressure Relative density Density	:	No data available No data available 1.3 - 2.0 g/cm3 (20 °C)
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Autoignition temperature Decomposition temperature Viscosity	::	insoluble No data available No data available No data available No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

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Poss reacti Cond	nical stability ibility of hazardous ons itions to avoid npatible materials	: Contact with a Stable under	
Acute	11. TOXICOLOGICA		
	corrosion/irritation lassified based on ava	ilable information.	
	us eye damage/eye lassified based on ava		
Resp	iratory or skin sensi	ization	
Chilm			

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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 equal to 0.1% is identified as a known or anticipated carcinogen by NTP.





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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	:	In accordance with local and national regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.
		In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation

49 CFR Not regulated as a dangerous good

49 CFR

: Not classified as dangerous in the meaning of transport regulations.

International Regulations



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UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous 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 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.

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	:	Combustible dust
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SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Aluminum 7429-90-5 >= 90 - <= 100 %



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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

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

Alumir	num

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

7429-90-5



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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	
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	

AIIC - 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



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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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