

# SYNCRYSTAL Silver

Version	Revision Date:	SDS Number:	Date of last issue: 12/10/2019
2.1	08/30/2022	102000025113	Date of first issue: 03/21/2018

#### **SECTION 1. IDENTIFICATION**

Product name	: SYNCRYSTAL Silver		
Product code	: 035490MJ0		
Manufacturer or supplier's	etails		
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	: <b>CHEMTREC</b> : 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.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous ingredients

Chemical name	CAS-No.	Concentration (% w/w)			
Fluorphlogopite (Mg3K[AIF2O(SiO3)3])	12003-38-2	>= 70 - < 90			
Titanium oxide (TiO2)	13463-67-7	>= 20 - < 30			
Actual concentration is withheld as a trade secret					

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#### SECTION 4. FIRST AID MEASURES

General advice	:	No hazards which require special first aid measures. Do not leave the victim unattended.
lf inhaled	:	If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and water. Wash off with soap and water.
In case of eye contact	:	Remove contact lenses. If eye irritation persists, consult a specialist. 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. 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**

Further information	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special protective equipment :	Wear self-contained breathing apparatus for firefighting if necessary.
for fire-fighters	Wear self-contained breathing apparatus for firefighting if necessary.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Avoid dust formation.
protective equipment and	Avoid dust formation.
emergency procedures	



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E	nvironmental precautions	: No special env	vironmental precautions required.
	ethods and materials for ontainment and cleaning up	Sweep up and	range disposal without creating dust. shovel. le, closed containers for disposal.
		Sweep up and	range disposal without creating dust. shovel. le, closed containers for disposal.
SECTI	ON 7. HANDLING AND ST	ORAGE	
	dvice on protection against re and explosion	: Normal measu	res for preventive fire protection.
		Provide appro is formed.	priate exhaust ventilation at places where dust
A	dvice on safe handling	Smoking, eatir application are For personal p Smoking, eatir	protection see section 8. ng and drinking should be prohibited in the
Co	onditions for safe storage	<ul> <li>application area.</li> <li>Electrical installations / working materials must comply w the technological safety standards.</li> <li>Electrical installations / working materials must comply w</li> </ul>	
М	aterials to avoid		cal safety standards. o be especially mentioned.
		No materials t	o be especially mentioned.
	urther information on	: Keep in a dry	place.
st	orage 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
Fluorphlogopite (Mg3K[AIF2O(SiO3)3])	12003-38-2	TWA	2.5 mg/m3 (Fluorine)	OSHA Z-1





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		TWA	2.5 mg/m3 (Fluorine)	ACGIH
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminum)	ACGIH
		TWA	2.5 mg/m3 (Fluorine)	OSHA P0
Titanium oxide (TiO2)	13463-67-7	TWA (total dust)	50 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-3
		TWA (respirable fraction)	5 mg/m3	OSHA Z-3
		TWA (respirable fraction)	15 Million particles per cubic foot	OSHA Z-3
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH

#### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Samplin g time	Permissible concentratio n	Basis
Fluorphlogopite (Mg3K[AIF2O(SiO3)3])	12003-38- 2	Fluoride (Fluorine)	Urine	Prior to shift (16 hours after exposure ceases)	2 mg/l	ACGIH BEI
		Fluoride (Fluorine)	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGIH BEI

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally





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		required.			
Eye p	rotection	: Safety g	asses		
	and body protection	: Protectiv			
Hygie	ne measures	: General industrial hygiene practice. General industrial hygiene practice.			
BECTION	9. PHYSICAL AND CHE	MICAL PRO	PERTIES		
Appe	arance	: powder			
Color		: silver			
Odor		: odorles			
Odor Threshold		: No data available			
рН			ce/mixture is non-soluble (in water)		
Melting point/freezing point			available		
Initial range	boiling point and boiling	: No data	available		
	point	: No data	available		
	pration rate	: No data	available		
	nability (solid, gas)	: Will not	burn		
		combus	tible dust		
	r explosion limit / Upper nability limit	: No data	available		
	r explosion limit / Lower nability limit	: No data	available		
Vapo	r pressure	: No data	available		
	ve density	: No data	available		
	ility(ies)		available		
	on coefficient: n-	: No data	available		
	ol/water				
	gnition temperature		available		
Deco	mposition temperature	: No data : No data	available		
Visco					

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reactions	:	No decomposition if stored and applie No decomposition if stored and applie Stable under recommended storage c No hazards to be specially mentioned Dust may form explosive mixture in air	ed as directed. onditions.
Conditions to avoid	:	No data available No data available	
		5 / 11	A member of <b>C ALTANA</b>



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#### SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

#### **Components:**

Titanium oxide (TiO2): Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 6.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

#### Skin corrosion/irritation

Not classified based on available information.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Respiratory or skin sensitization

#### 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	Group 2B: Possibly carcinogenic to humans		
	Titanium oxide (TiO2)	13463-67-7	
OSHA	No component of this product p equal to 0.1% is on OSHA's list		
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinoger 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

#### Components:

#### Fluorphlogopite (Mg3K[AIF2O(SiO3)3]):

Additional ecological : No data available information

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

#### SECTION 14. TRANSPORT INFORMATION

#### **Domestic regulation**

#### 49 CFR



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Not re	egulated as a dangero	ous good	
49 CF	R	: Not classified as dangerous in the meaning of transport regulations.	
Interr	national Regulations		
<b>UNR1</b> Not re	r <b>DG</b> egulated as a dangero	ous good	
IATA Not re	<b>-DGR</b> egulated as a dangero	ous good	
	<b>-Code</b> egulated as a dangero	ous good	
Rema	arks	: Not classified a regulations.	s dangerous in the meaning of transport
ADR		: Not classified a regulations.	s dangerous in the meaning of transport
IATA	-DGR	: Not classified a regulations.	s dangerous in the meaning of transport
IMDG	-Code	: Not classified a regulations.	is dangerous in the meaning of transport
Not d	langerous goods in the	e 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**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### 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 Titanium oxide (TiO2)	13463-67-7
Pennsylvania Right To Know Fluorphlogopite (Mg3K[AIF2O(SiO3)3])	12003-38-2
Titanium oxide (TiO2)	13463-67-7

#### 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.



WARNING: This product can expose you to chemicals including Titanium oxide (TiO2), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

#### California List of Hazardous Substances

Fluorphlogopite (Mg3K[AIF2O(SiO3)3])

12003-38-2



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#### California Permissible Exposure Limits for Chemical Contaminants

FI	luorphlogopite (Mg3K[AIF2O(SiO3)3])	12003-38-2	
Ti	tanium oxide (TiO2)	13463-67-7	

#### 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

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
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
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

AlIC - 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 -



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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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