

SYNCRYSTAL Silk Silver

Version	Revision Date:	SDS Number:	Date of last issue: 12/06/2019
2.1	08/30/2022	102000029230	Date of first issue: 03/21/2018

SECTION 1. IDENTIFICATION

Product name Product code	:	SYNCRYSTAL Silk Silver 035651MJ0
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)
		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	>= 50 - < 70
Titanium oxide (TiO2)	13463-67-7	>= 30 - < 50
Actual concentration is withheld as a trade	secret	

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SECTION 4. FIRST AID MEASURES

General advice If inhaled	:	Do not leave the victim unattended. 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.
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

Further information	:	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
for fire-fighters		necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Avoid dust formation.
Environmental precautions	:	No special environmental precautions required.
Methods and materials for containment and cleaning up	:	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	:	For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
Conditions for safe storage	:	Electrical installations / working materials must comply with



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		the technologi	cal safety standards.	

Materials to avoid	:	No materials to be especially mentioned.
Further information on storage stability	:	Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
<u></u>			concentration	
Fluorphlogopite	12003-38-2	TWA	2.5 mg/m3	OSHA Z-1
(Mg3K[AIF2O(SiO3)3])			(Fluorine)	
		TWA	2.5 mg/m3 (Fluorine)	ACGIH
		TWA	1 mg/m3	ACGIH
		(Respirable	(Aluminum)	
		particulate		
		matter)		
		TWA	2.5 mg/m3	OSHA P0
			(Fluorine)	
Titanium oxide (TiO2)	13463-67-7	TWA (total	50 Million	OSHA Z-3
		dust)	particles per cubic	
		,	foot	
		TWA (total	15 mg/m3	OSHA Z-3
		dust)	Ŭ	
		TWA	5 mg/m3	OSHA Z-3
		(respirable	Ŭ	
		fraction)		
		TWA	15 Million	OSHA Z-3
		(respirable	particles per cubic	
		fraction)	foot	
		TWA (total	15 mg/m3	OSHA Z-1
		dust)		
		TWA (Total	10 mg/m3	OSHA P0
		dust)	· · · · · · · · · · · · · · · · · · ·	
		TWA	10 mg/m3	ACGIH
			(Titanium dioxide)	

Ingredients with workplace control parameters

Biological occupational exposure limits

Components	CAS-No.		Biological specimen	Samplin g time	Permissible concentratio n	Basis
Fluorphlogopite	12003-38-	Fluoride	Urine	Prior to	2 mg/l	ACGIH

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(Mg3l	K[AIF2O(SiO3)3])	2		(Fluorine)		shift (16 hours after exposure ceases)		BEI
				Fluoride (Fluorine)	Urine	End of shift (As soon as possible after exposure ceases)	3 mg/l	ACGII BEI
Perso	onal protective equ	ipme	nt					
	iratory protection	-	: No	personal res uired.	piratory pro	otective equipr	ment normally	/
Skin	protection and body protection ane measures	I	: Pro	ety glasses etective suit neral industria		practico		
riyyie			. 00		arnygiene	plactice.		
	9. PHYSICAL AND	CHEI						
CTION Appe Color Odor Odor pH Meltir Initial range Flash Evap	9. PHYSICAL AND arance Threshold ng point/freezing po boiling point and bo	int	MICAL : pc : sil : oc : Na	PROPERTIE wder ver lorless o data availab	ES Ie ure is non-s Ie Ie	soluble (in wat	ter)	
CTION Appe Color Odor Odor pH Meltir Initial range Flash Evap	9. PHYSICAL AND arance Threshold ng point/freezing po boiling point and bo point oration rate	int	WICAL : pc : sil : oc : Nc	PROPERTIE wder ver lorless o data availab bstance/mixt o data availab o data availab o data availab	ES le le le le le	<u>.</u>	ter)	
CTION Appe Color Odor Ddor PH Meltir Initial range Flash Evap Flamr	9. PHYSICAL AND arance Threshold ng point/freezing po boiling point and bo point oration rate	int biling	Image: Constraint of the second sec	PROPERTIE owder ver lorless o data availab bstance/mixt o data availab o data availab o data availab o data availab	ES le le le le st	<u>.</u>	ter)	
CTION Appe Color Odor PH Meltir Initial range Flash Evap Flamr Uppe flamn Lowe flamn	9. PHYSICAL AND arance Threshold ng point/freezing po boiling point and bo point oration rate mability (solid, gas) r explosion limit / Up	int biling	Image: product of the second	PROPERTIE owder ver lorless o data availab bstance/mixt o data availab o data availab o data availab o data availab o data availab o data availab	ES le le le le st le le	<u>.</u>	ter)	

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	gnition temperature mposition temperature osity	: No data avail : No data avail : No data avail	able
SECTION	10. STABILITY AND I	REACTIVITY	
	nical stability ibility of hazardous	: No decompo : Stable under No hazards to	sition if stored and applied as directed. sition if stored and applied as directed. recommended storage conditions. b be specially mentioned. m explosive mixture in air.
Cond	litions to avoid	: No data avail	able

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.



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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 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 carcinoger 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

NO UALA AVAIIADIE

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



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Contaminated packaging	: Empty containers should be taken to an approved waste handling site for recycling or disposal.
ECTION 14. TRANSPORT INFO	RMATION
Domestic regulation	
49 CFR Not regulated as a dangerous	sgood
49 CFR	: Not classified as dangerous in the meaning of transport regulations.
International Regulations	
UNRTDG Not regulated as a dangerous	sgood
IATA-DGR Not regulated as a dangerous	sgood
IMDG-Code Not regulated as a dangerous	sgood
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.



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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]) Titanium oxide (TiO2)	12003-38-2 13463-67-7

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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

California Permissible Exposure Limits for Chemical Contaminants

Fluorphlogopite (Mg3K[AIF2O(SiO3)3])	12003-38-2
Ttanium avida (TO2)	40400 07 7
Titanium oxide (TiO2)	13463-67-7

Titanium oxide (TiO2)

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



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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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