

SYNCRYSTAL Silver

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000025113 Date of last issue: -
Date of first issue: 03/21/2018

SECTION 1. IDENTIFICATION

Product name : SYNCRYSTAL Silver

Product code : 035490MJ0

Manufacturer or supplier's details

Company name of supplier : ECKART GmbH

Address : Guentersthal 4
Hartenstein 91235

Telephone : +499152770

Telefax : +499152777008

Emergency telephone number : CHEMTREC: 800-424-9300
CHEMTREC: 1-703-527-3387 (International)

GBK Gefahrgut Buero GmbH, Ingelheim, Germany:
From outside US: (001) 352-323-3500
(First call in English, response in your language is possible)
US & Canada (toll free):1-800-5355-053

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Combustible dust : Category 1

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 components

| Chemical name | CAS-No. | Concentration (% w/w) |
|-------------------------------------------------------------------------------------------|------------|-----------------------|
| Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃]) | 12003-38-2 | >= 70 - < 90 |

SYNCRYSTAL Silver

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 03/21/2018 | 102000025113 | Date of first issue: 03/21/2018 |

| | | |
|------------------------------------|------------|--------------|
| Titanium oxide (TiO ₂) | 13463-67-7 | >= 20 - < 30 |
|------------------------------------|------------|--------------|

SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
No hazards which require special first aid measures.
- If 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. FIREFIGHTING MEASURES

- Further information : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SYNCRYSTAL Silver

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 03/21/2018 | 102000025113 | Date of first issue: 03/21/2018 |

Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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

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.

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 : Normal measures for preventive fire protection.

Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

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 the technological safety standards.

Electrical installations / working materials must comply with the technological safety standards.

SYNCRYSTAL Silver

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000025113 Date of last issue: -
 Date of first issue: 03/21/2018

Materials to avoid : No materials to be especially mentioned.
 No materials to be especially mentioned.

Further information on storage stability : Keep in a dry place.

Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|----------------------------------------------------------------------------------------------|------------|----------------------------------|---------------------------------------------------|-----------|
| Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃]) | 12003-38-2 | TWA | 2.5 mg/m ³ (Fluorine) | CA AB OEL |
| | | TWAEV | 2.5 mg/m ³ (Fluorine) | CA QC OEL |
| | | TWA | 2.5 mg/m ³ (Fluorine) | CA BC OEL |
| | | TWA | 2.5 mg/m ³ (Fluorine) | CA AB OEL |
| | | TWAEV | 2.5 mg/m ³ (Fluorine) | CA QC OEL |
| | | TWA | 2.5 mg/m ³ (Fluorine) | CA BC OEL |
| | | TWA (Respirable) | 1 mg/m ³ (Aluminium) | CA BC OEL |
| | | TWA | 2.5 mg/m ³ (Fluorine) | ACGIH |
| | | TWA | 2.5 mg/m ³ (Fluorine) | ACGIH |
| | | TWA (Respirable fraction) | 1 mg/m ³ (Aluminium) | ACGIH |
| Titanium oxide (TiO ₂) | 13463-67-7 | TWA | 10 mg/m ³ | CA AB OEL |
| | | TWA (Total dust) | 10 mg/m ³ | CA BC OEL |
| | | TWA (respirable) | 3 mg/m ³ | CA BC OEL |

SYNCRYSTAL Silver

Version 1.0 Revision Date: 03/21/2018 SDS Number: 102000025113 Date of last issue: -
 Date of first issue: 03/21/2018

| | | | | |
|--|--|-----------------------|--------------------------------------------|-----------|
| | | dust fraction) | | |
| | | TWAEV (total dust) | 10 mg/m ³ | CA QC OEL |
| | | TWA | 10 mg/m ³ (Titanium dioxide) | ACGIH |

Biological occupational exposure limits

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|----------------------------------------------------------------------------------------------|------------|------------------------|---------------------|----------------------------------------------------------|---------------------------|--------------|
| Fluorophlogopite (Mg ₃ K[AlF ₂ O(SiO ₃) ₃]) | 12003-38-2 | Fluoride | Urine | Prior to shift (16 hours after exposure ceases) | 3 mg/g | ACGIH BEI |
| | | Fluoride | Urine | End of shift (As soon as possible after exposure ceases) | 10 mg/g | ACGIH BEI |
| | | 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

Eye protection : Safety glasses

Hygiene measures : General industrial hygiene practice.
 General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

SYNCRYSTAL Silver

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 03/21/2018 | 102000025113 | Date of first issue: 03/21/2018 |

| | | |
|-----------------------------------------|---|-------------------|
| Appearance | : | powder |
| Colour | : | No data available |
| Odour | : | odourless |
| Odour Threshold | : | No data available |
| pH | : | No data available |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | No data available |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Will not burn |

combustible dust

| | | |
|--------------------------------------------------|---|-------------------|
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative density | : | No data available |
| Solubility(ies) | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Viscosity | : | No data available |

SECTION 10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity | : | No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. |
| Chemical stability | : | No decomposition if stored and applied as directed. No decomposition if stored and applied as directed. |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions. Dust may form explosive mixture in air. Stable under recommended storage conditions. Dust may form explosive mixture in air. |
| Conditions to avoid | : | No data available No data available |

SYNCRYSTAL Silver

Version Revision Date: SDS Number: Date of last issue: -
1.0 03/21/2018 102000025113 Date of first issue: 03/21/2018

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 sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

SYNCRYSTAL Silver

Version Revision Date: SDS Number: Date of last issue: -
1.0 03/21/2018 102000025113 Date of first issue: 03/21/2018

Further information

Components:

Fluorphlogopite (Mg₃K[AIF₂O(SiO₃)₃]):

Remarks: No data available

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.

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.

In accordance with local and national regulations.

SECTION 14. TRANSPORT INFORMATION

International Regulations

SYNCRYSTAL Silver

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 03/21/2018 | 102000025113 | Date of first issue: 03/21/2018 |

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

SECTION 15. REGULATORY INFORMATION

The components of this product are reported in the following inventories:

DSL : All components of this product are on the Canadian DSL

TSCA : On TSCA Inventory

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

CA AB OEL : Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)

CA BC OEL : Canada. British Columbia OEL

CA QC OEL : Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants

ACGIH / TWA : 8-hour, time-weighted average

CA AB OEL / TWA : 8-hour Occupational exposure limit

CA BC OEL / TWA : 8-hour time weighted average

CA QC OEL / TWAEV : Time-weighted average exposure value

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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

SAFETY DATA SHEET



SYNCRYSTAL Silver

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: - |
| 1.0 | 03/21/2018 | 102000025113 | Date of first issue: 03/21/2018 |

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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

Revision Date : 03/21/2018

The information provided in this 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.

CA / EN