

## SYNCRYSTAL Jade

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

---

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : SYNCRYSTAL Jade  
Material number : 035676MJ0

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

#### 1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH  
Guentersthal 4  
91235 Hartenstein  
  
Telephone : +499152770  
  
Telefax : +499152777008  
  
E-mail address of person responsible for the SDS : msds.eckart@altana.com

#### 1.4 Emergency telephone number

GBK Gefahrgut Büro 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

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Not a dangerous substance according to GHS.

**Classification (67/548/EEC, 1999/45/EC)**

Not a hazardous substance or mixture.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

**Additional Labelling:**

## SYNCRYSTAL Jade

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

EUH210      Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
No information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name   | CAS-No.<br>EC-No.<br>Registration<br>number | Classification<br>(67/548/EEC) | Classification<br>(REGULATION<br>(EC) No<br>1272/2008) | Concentration<br>(% w/w) |
|---|---|--------------------------------|--|--------------------------|
| Substances with a workplace exposure limit :  |   |                                |  |                          |
| Fluorphlogopite<br>(Mg <sub>3</sub> K[AlF <sub>2</sub> O(SiO <sub>3</sub> ) <sub>3</sub> ]) | 12003-38-2<br>234-426-5                     |                                |  | >= 25 - < 50             |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : 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.
- 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.

### 4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

### 4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

## SYNCRYSTAL Jade

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : This information is not available.

Unsuitable extinguishing media : This information is not available.

#### 5.2 Special hazards arising from the substance or mixture

This information is not available.

#### 5.3 Advice for firefighters

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

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

---

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid dust formation.

#### 6.2 Environmental precautions

This information is not available.

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
Sweep up and shovel.  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

This information is not available.

---

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

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

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

---

## SYNCRYSTAL Jade

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

### 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.
- Advice on common storage : No materials to be especially mentioned.
- Other data : Keep in a dry place. No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

This information is not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components          | CAS-No.   | Value type (Form of exposure) | Control parameters   | Basis (Version Date) |
|---------------------|---|-------------------------------|----------------------|----------------------|
| titanium dioxide    | 13463-67-7  | TWA (Inhalable)               | 10 mg/m <sup>3</sup> | GB EH40 (2011-12-01) |
| Further information | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used  |                               |                      |                      |
| titanium dioxide    | 13463-67-7  | TWA (Respirable)              | 4 mg/m <sup>3</sup>  | GB EH40 (2011-12-01) |
| Further information | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used  |                               |                      |                      |
| titanium dioxide    | 13463-67-7  | TWA (inhalable dust)          | 10 mg/m <sup>3</sup> | GB EH40 (2011-12-01) |
| Further information | For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial |                               |                      |                      |

**SYNCRYSTAL Jade**

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

|   |  |                       |                                  |                         |
|---|--|-----------------------|----------------------------------|-------------------------|
|   | <p>dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p>   |                       |                                  |                         |
| titanium dioxide  | 13463-67-7   | TWA (Respirable dust) | 4 mg/m <sup>3</sup>              | GB EH40 (2011-12-01)    |
| Further information   | <p>For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust, The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m<sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m<sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used</p> |                       |                                  |                         |
| Fluorophlogopite (Mg <sub>3</sub> K[AlF <sub>2</sub> O(SiO <sub>3</sub> ) <sub>3</sub> ]) | 12003-38-2   | TWA                   | 2.5 mg/m <sup>3</sup> (Fluorine) | 2000/39/EC (2000-06-16) |
| Further information   | Indicative   |                       |                                  |                         |
| Fluorophlogopite (Mg <sub>3</sub> K[AlF <sub>2</sub> O(SiO <sub>3</sub> ) <sub>3</sub> ]) | 12003-38-2   | TWA                   | 2.5 mg/m <sup>3</sup> (Fluorine) | GB EH40 (2007-08-01)    |
| Further information   | Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used  |                       |                                  |                         |
| iron hydroxide oxide yellow   | 51274-00-1   | TWA (Inhalable)       | 10 mg/m <sup>3</sup>             | GB EH40 (2011-12-01)    |
| Further information   | <p>The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m<sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m<sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs</p>   |                       |                                  |                         |

**SYNCRYSTAL Jade**

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

|                             |  |                  |                 |                      |
|-----------------------------|--|------------------|-----------------|----------------------|
|                             | and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used   |                  |                 |                      |
| iron hydroxide oxide yellow | 51274-00-1   | TWA (Respirable) | 4 mg/m3         | GB EH40 (2011-12-01) |
| Further information         | The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used |                  |                 |                      |
| iron hydroxide oxide yellow | 51274-00-1   | TWA (Fumes)      | 5 mg/m3 (Iron)  | GB EH40 (2011-12-01) |
| Further information         | The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.   |                  |                 |                      |
| iron hydroxide oxide yellow | 51274-00-1   | STEL (Fumes)     | 10 mg/m3 (Iron) | GB EH40 (2011-12-01) |
| Further information         | The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.   |                  |                 |                      |

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name                           | End Use   | Exposure routes | Potential health effects     | Value     |
|--|-----------|-----------------|------------------------------|-----------|
| titanium dioxide (13463-67-7)            | Workers   | Inhalation      | long term – local effects    | 10 mg/m3  |
|  | Consumers | Ingestion       | long term – systemic effects | 700 mg/kg |
| iron hydroxide oxide yellow (51274-00-1) | Workers   | Inhalation      | Long-term local effects      | 10 mg/m3  |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name                | Environmental Compartment | Value      |
|-------------------------------|---------------------------|------------|
| titanium dioxide (13463-67-7) | Soil                      | 100 mg/kg  |
|                               | Fresh water               | 0.127 mg/l |
|                               | Fresh water sediment      | 1000 mg/kg |
|                               | Marine water              | 1 mg/l     |
|                               | Marine sediment           | 100 mg/kg  |
|                               | STP                       | 100 mg/l   |

## **SYNCRYSTAL Jade**

Version            Revision Date:            SDS Number:            Print Date: 19.11.2018  
1.0                14.11.2016                102000025111            Date of first issue: 14.11.2016

---

### **8.2 Exposure controls**

#### **Personal protective equipment**

Eye protection                                : Safety glasses

Hand protection                                : This information is not available.  
Skin and body protection                        : This information is not available.  
Respiratory protection                            : This information is not available.  
Environmental exposure controls                : This information is not available.

---

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance                                        : powder  
Colour    : No data available  
Odour     : odourless  
Odour Threshold                                    : No data available  
pH     : No data available  
Freezing point                                     : No data available  
Boiling point/boiling range                     : No data available  
Flash point                                         : No data available  
Evaporation rate                                 : No data available  
Flammability (solid, gas)                        : No data available  
Auto-flammability                                 : No data available  
Upper explosion limit                             : No data available  
Lower explosion limit                             : No data available  
Vapour pressure                                  : No data available  
Relative vapour density                         : No data available  
Relative density                                  : No data available  
Density    : No data available  
Bulk density                                        : No data available  
Water solubility                                  : No data available  
Solubility in other solvents                     : No data available  
Partition coefficient: n-octanol/water         : No data available  
Ignition temperature                             : No data available  
Decomposition temperature                     : No data available  
Viscosity, dynamic                                : No data available  
Viscosity, kinematic                             : No data available  
Flow time                                         : No data available  
Explosive properties                              : No data available  
Oxidizing properties                              : No data available

### **9.2 Other information**

No data available

---

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No decomposition if stored and applied as directed.

---

## SYNCRYSTAL Jade

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 19.11.2018          |
| 1.0     | 14.11.2016     | 102000025111 | Date of first issue: 14.11.2016 |

---

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.  
Dust may form explosive mixture in air.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : This information is not available.

### 10.6 Hazardous decomposition products

Contact with water or humid air : This information is not available.

Thermal decomposition : This information is not available.

---

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Further information

#### Product:

Remarks: No data available

#### Components:

#### **12003-38-2:**

Remarks: No data available

---

## SECTION 12: Ecological information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

---



## SYNCRYSTAL Jade

Version 1.0      Revision Date: 14.11.2016      SDS Number: 102000025111      Print Date: 19.11.2018  
Date of first issue: 14.11.2016

---

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects

**Product:**

Additional ecological information : Remarks: No data available

**Components:**

**12003-38-2:**

Additional ecological information : Remarks: No data available

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : 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

### 14.1 UN number

### 14.2 UN proper shipping name

### 14.3 Transport hazard class(es)

### 14.4 Packing group

### 14.5 Environmental hazards

### 14.6 Special precautions for user

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

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

Not applicable for product as supplied.

---

## **SYNCRYSTAL Jade**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 19.11.2018          |
| 1.0     | 14.11.2016     | 102000025111 | Date of first issue: 14.11.2016 |

---

### **SECTION 15: Regulatory information**

#### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

#### **15.2 Chemical safety assessment**

This information is not available.

---

### **SECTION 16: Other information**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

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

## **SYNCRYSTAL Jade**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Print Date: 19.11.2018          |
| 1.0     | 14.11.2016     | 102000025111 | Date of first issue: 14.11.2016 |

---

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.

GB / EN