

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022




Version number 1

Reviewed on 03/16/2022

### 1 Identification

- **Product identifier**
- **Trade name:** Crystal
- **Recommended use of the chemical and restrictions on use:**
- **Application of the substance / the preparation:** Lighting fixture, for Pendant & Ceiling lamp
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** BRIGHT HOUSE LIGHTING CO.,LTD
- **Full address:**  
4/F, A1 BUILDING JIAHUI PLAZA , NO.9 KANGLONG 3ND ROAD, XINMAO IND. AREA,HENGLAN TOWN,ZHONGSHAN CITY,GUANGDONG PROVINCE , CHINA
- **Phone number:** 0760-87680708
- **Email:** sales1@brighthouselighting.com
- **Other U.S. contact point:** Not available
- **Further information obtainable from:** BRIGHT HOUSE LIGHTING CO.,LTD
- **Emergency telephone number:**  
Poison Center  
Tel: +1 800 222 1222
- **Reference Number:** CANEC2204142501,CP22-011776 SZ
- **Remark:**  
This product is likely to be classified as article and is out of scope of a SDS as set out in 29 CFR Part 1910.1200. This SDS is generated for applicant's reference only.

### 2 Hazard(s) identification

- **Classification of the substance or mixture**  
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200)
- 
**GHS08 Health hazard**  
  
 Repr. 1B    H360 May damage fertility or the unborn child.
- 
**GHS05 Corrosion**  
  
 Eye Dam. 1    H318 Causes serious eye damage.
- 
**GHS07**  
  
 Skin Irrit. 2    H315 Causes skin irritation.
- **Information concerning particular hazards for human and environment:**  
The product has to be labeled due to the calculation procedure of OSHA Hazard Communication Standard (29 CFR 1910.1200).
- **Classification system:**  
The classification is according to the latest edition of OSHA Hazard Communication Standard (29 CFR 1910.1200), and extended by company and literature data.

(Contd. on page 2)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 1)

- **Label elements**
- **Labelling according to OSHA Hazard Communication Standard (29 CFR 1910.1200)**
- **Hazard pictograms**



GHS05 GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
*diboron trioxide*  
*Disodium oxide*
- **Hazard statements**  
*H315 Causes skin irritation.*  
*H318 Causes serious eye damage.*  
*H360 May damage fertility or the unborn child.*
- **Precautionary statements**  
*P201 Obtain special instructions before use.*  
*P202 Do not handle until all safety precautions have been read and understood.*  
*P264 Wash thoroughly after handling.*  
*P280 Wear protective gloves/protective clothing/eye protection/face protection.*  
*P302+P352 If on skin: Wash with plenty of water.*  
*P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*  
*P310 Immediately call a poison center/doctor.*  
*P308+P313 IF exposed or concerned: Get medical advice/attention.*  
*P321 Specific treatment (see on this label).*  
*P362+P364 Take off contaminated clothing and wash it before reuse.*  
*P332+P313 If skin irritation occurs: Get medical advice/attention.*  
*P405 Store locked up.*  
*P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Hazards not otherwise classified (HNOC)** *No further relevant information available.*

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:**  
*Mixture of the substances listed below with nonhazardous additions.*  
*For the wording of the listed hazard statements refer to Section 16.*

#### · **Composition:**

14808-60-7	Quartz (SiO <sub>2</sub> )	79.58%
1303-86-2	diboron trioxide	13.26%
	Repr. 1B, H360	
1313-59-3	Disodium oxide	4.27%
	Skin Corr. 1B, H314	
1344-28-1	Aluminium oxide	2.65%
59766-31-3	Dipotassium titanate(2-)	0.065%
	Carc. 2, H351	
1309-37-1	Diiron trioxide	0.054%
1305-78-8	Calcium oxide	0.032%
	Eye Dam. 1, H318;  Skin Irrit. 2, H315; STOT SE 3, H335	

(Contd. on page 3)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 2)

1309-48-4	Magnesium oxide	0.022%
1317-80-2	Rutile (TiO <sub>2</sub> )	0.01%
1314-11-0	strontium oxide ⚠ Skin Corr. 1B, H314	<0.01%
12057-24-8	Dilithium oxide ⚠ Skin Corr. 1B, H314	<0.01%
12059-89-1	Dilead oxide ⚠ Carc. 1B, H350	<0.01%
1314-13-2	zinc oxide	<0.01%
1306-38-3	Cerium dioxide	<0.01%
1304-28-5	barium oxide, obtained by calcining witherite ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332	<0.01%

### 4 First-aid measures

- **Description of first aid measures**
- **General description:** Immediately remove any clothing soiled by the product.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Special protective equipment and precautions for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Use neutralizing agent.  
Dispose contaminated material as waste according to section 13.

### 7 Handling and storage

- **Precautions for safe handling:**  
Thorough dedusting.  
Open and handle receptacle with care.  
For the general occupational hygienic measures refer to Section 8.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.

(Contd. on page 4)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 3)

- **Conditions for safe storage, including any incompatibilities**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.

### 8 Exposure controls/personal protection

- **Components with limit values that require monitoring at the workplace:**

#### 14808-60-7 Quartz (SiO<sub>2</sub>) (79.58%)

PEL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *resp. dust; 30mg/m <sup>3</sup> /%SiO <sub>2</sub> +2
REL (USA)	Long-term value: 0.05* mg/m <sup>3</sup> *respirable dust; See Pocket Guide App. A
TLV (USA)	Long-term value: 0.025* mg/m <sup>3</sup> *as respirable fraction

#### 1303-86-2 diboron trioxide (13.26%)

PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL (USA)	Long-term value: 10 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>

#### 1344-28-1 Aluminium oxide (2.65%)

PEL (USA)	Long-term value: 15*; 5** mg/m <sup>3</sup> *Total dust; ** Respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> as Al*Total dust**Respirable/pyro powd./welding f.
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> as Al; *as respirable fraction

#### 1309-37-1 Diiron trioxide (0.054%)

PEL (USA)	Long-term value: 10* mg/m <sup>3</sup> *Fume
REL (USA)	Long-term value: 5 mg/m <sup>3</sup> Dust & fume, as Fe
TLV (USA)	Long-term value: 5* mg/m <sup>3</sup> *as respirable fraction

#### 1305-78-8 Calcium oxide (0.032%)

PEL (USA)	Long-term value: 5 mg/m <sup>3</sup>
REL (USA)	Long-term value: 2 mg/m <sup>3</sup>
TLV (USA)	Long-term value: 2 mg/m <sup>3</sup>

#### 1309-48-4 Magnesium oxide (0.022%)

PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> fume; *total particulate
TLV (USA)	Long-term value: 10* mg/m <sup>3</sup> *as inhalable fraction

#### 1304-28-5 barium oxide, obtained by calcining witherite (<0.01%)

PEL (USA)	Long-term value: 0.5 mg/m <sup>3</sup> as Ba
REL (USA)	Long-term value: 0.5 mg/m <sup>3</sup> as Ba

(Contd. on page 5)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 4)

TLV (USA)	Long-term value: 0.5 mg/m <sup>3</sup> as Ba
<b>1314-13-2 zinc oxide (&lt;0.01%)</b>	
PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction and fume
REL (USA)	Short-term value: 10** mg/m <sup>3</sup> Long-term value: 5 mg/m <sup>3</sup> Ceiling limit value: 15* mg/m <sup>3</sup> *dust only **fume
TLV (USA)	Short-term value: 10* mg/m <sup>3</sup> Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction

- **Regulatory information**

PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)

REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)

TLV (USA): Guide to Occupational Exposure Values (ACGIH)

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.**

- **Appropriate engineering controls:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

See Section 7 for information about design of technical facilities.

- **Personal protective equipment:**

- **Breathing equipment:** Not required.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

USA

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 5)

**· Eye protection:***Tightly sealed goggles*

### 9 Physical and chemical properties

**· General Information****· Appearance:**

<b>Form:</b>	<i>Solid</i>
<b>Color:</b>	<i>Clear</i>
<b>· Odor:</b>	<i>Odourless</i>
<b>· Odor threshold:</b>	<i>Not available</i>

<b>· pH-value:</b>	<i>Not available</i>
--------------------	----------------------

**· Change in condition**

<b>Melting point/Freezing point:</b>	<i>Not available</i>
<b>Initial boiling point and boiling range:</b>	<i>Not available</i>

<b>· Flash point:</b>	<i>Not available</i>
-----------------------	----------------------

<b>· Flammability (solid, gaseous):</b>	<i>Not available</i>
-----------------------------------------	----------------------

<b>· Auto-Ignition temperature:</b>	<i>Not available</i>
-------------------------------------	----------------------

<b>· Decomposition temperature:</b>	<i>Not available</i>
-------------------------------------	----------------------

**· Explosion limits:**

<b>Lower:</b>	<i>Not available</i>
<b>Upper:</b>	<i>Not available</i>

<b>· Vapor pressure:</b>	<i>Not available</i>
--------------------------	----------------------

<b>· Density:</b>	<i>Not available</i>
-------------------	----------------------

<b>· Relative density:</b>	<i>Not available</i>
----------------------------	----------------------

<b>· Vapor density:</b>	<i>Not available</i>
-------------------------	----------------------

<b>· Evaporation rate:</b>	<i>Not available</i>
----------------------------	----------------------

**· Solubility in / Miscibility with**

<b>Water:</b>	<i>Not available</i>
---------------	----------------------

<b>· Partition coefficient (n-octanol/water):</b>	<i>Not available</i>
---------------------------------------------------	----------------------

**· Viscosity:**

<b>Dynamic:</b>	<i>Not available</i>
<b>Kinematic:</b>	<i>Not available</i>

<b>· Other information</b>	<i>No further relevant information available.</i>
----------------------------	---------------------------------------------------

### 10 Stability and reactivity

<b>· Reactivity:</b>	<i>No further relevant information available.</i>
----------------------	---------------------------------------------------

<b>· Chemical stability:</b>	<i>No further relevant information available.</i>
------------------------------	---------------------------------------------------

<b>· Possibility of hazardous reactions:</b>	<i>No dangerous reactions known.</i>
----------------------------------------------	--------------------------------------

<b>· Conditions to avoid:</b>	<i>No further relevant information available.</i>
-------------------------------	---------------------------------------------------

<b>· Incompatible materials:</b>	<i>No further relevant information available.</i>
----------------------------------	---------------------------------------------------

(Contd. on page 7)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

Trade name: Crystal

(Contd. of page 6)

· **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

**1303-86-2 diboron trioxide**

Oral LD50 3,163 mg/kg (mouse)

**1309-37-1 Diiron trioxide**

Oral LD50 >5,000 mg/kg (rat)

· **Skin corrosion/irritation:** Irritant to skin and mucous membranes.

· **Serious eye damage/irritation:** Strong irritant with the danger of severe eye injury.

· **Respiratory or skin sensitization:** Sensitization possible.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Toxic

Harmful

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

14808-60-7 Quartz (SiO<sub>2</sub>)

1

1309-37-1 Diiron trioxide

3

1317-80-2 Rutile (TiO<sub>2</sub>)

2B

· **NTP (National Toxicology Program)**

14808-60-7 Quartz (SiO<sub>2</sub>)

K

12059-89-1 Dilead oxide

R

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

### 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability:** No further relevant information available.

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 8)



# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 7)

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, IMDG, IATA</b>	Not applicable
· <b>UN proper shipping name</b>	
· <b>DOT, IMDG, IATA</b>	Not applicable
· <b>Transport hazard class(es)</b>	
· <b>DOT, IMDG, IATA</b>	
· <b>Class</b>	Not applicable
· <b>Label</b>	-
· <b>Packing group</b>	
· <b>DOT, IMDG, IATA</b>	Not applicable
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable
· <b>UN "Model Regulation":</b>	Void

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

1344-28-1 Aluminium oxide

1304-28-5 barium oxide, obtained by calcining witherite

1314-13-2 zinc oxide

12059-89-1 Dilead oxide

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Proposition 65**· **Chemicals known to cause cancer:**14808-60-7 Quartz (SiO<sub>2</sub>)

12059-89-1 Dilead oxide

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

(Contd. on page 9)



# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 8)

**· New Jersey Right-to-Know List:**

14808-60-7	Quartz (SiO <sub>2</sub> )
1303-86-2	diboron trioxide
1344-28-1	Aluminium oxide
1309-37-1	Diiron trioxide
1305-78-8	Calcium oxide
1309-48-4	Magnesium oxide
1304-28-5	barium oxide, obtained by calcining witherite
1314-13-2	zinc oxide

**· New Jersey Special Hazardous Substance List:**

14808-60-7	Quartz (SiO <sub>2</sub> )	CA
1305-78-8	Calcium oxide	CO, R1
1304-28-5	barium oxide, obtained by calcining witherite	R2

**· Pennsylvania Right-to-Know List:**

14808-60-7	Quartz (SiO <sub>2</sub> )
1303-86-2	diboron trioxide
1344-28-1	Aluminium oxide
1309-37-1	Diiron trioxide
1305-78-8	Calcium oxide
1309-48-4	Magnesium oxide
1314-13-2	zinc oxide
1317-80-2	Rutile (TiO <sub>2</sub> )

**· Pennsylvania Special Hazardous Substance List:**

1344-28-1	Aluminium oxide	E
1314-13-2	zinc oxide	E

**· Cancerogenity categories****· EPA (Environmental Protection Agency)**

1303-86-2	diboron trioxide	I (oral)
1304-28-5	barium oxide, obtained by calcining witherite	D, CBD(inh), NL(oral)
1306-38-3	Cerium dioxide	II
1314-13-2	zinc oxide	D, I, II

**· TLV (Threshold Limit Value established by ACGIH)**

14808-60-7	Quartz (SiO <sub>2</sub> )	A2
1344-28-1	Aluminium oxide	A4
1309-37-1	Diiron trioxide	A4
1309-48-4	Magnesium oxide	A4
1304-28-5	barium oxide, obtained by calcining witherite	A4

**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO <sub>2</sub> )
------------	----------------------------

**16 Other information****· Relevant hazard statements**

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

(Contd. on page 10)

# Safety Data Sheet

## 29 CFR 1910.1200

Printing date 03/16/2022

Version number 1

Reviewed on 03/16/2022

**Trade name: Crystal**

(Contd. of page 9)

H318 Causes serious eye damage.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H350 May cause cancer.  
 H351 Suspected of causing cancer.  
 H360 May damage fertility or the unborn child.

\*\*\*\*\*  
 The contents and format of this SDS are in accordance with 29 CFR 1910.1200.

### DISCLAIMER OF LIABILITY

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

· **Date of preparation / last revision** 03/16/2022 / -

### · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 ACGIH: American Conference of Governmental Industrial Hygienists  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Carc. 1B: Carcinogenicity – Category 1B  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 1B: Reproductive toxicity – Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\*\*\*\*\*

End of document

USA