



SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

## CRYSTAL OPC

Version 4.5

Date of printing 02/14/2022

Revision date / valid from 02/14/2022

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

#### 1.1. Product identifier

Trade name : CRYSTAL OPC

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

Use of the substance or mixture : Industrial. Cosmetic industry

Unrecommended uses : Excluded for professional use until UFI launch.

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

Firm

Ekokoza s.r.o

Phone

Fryčovice 297, 73945, Fryčovice

Fax

ID: 07508247, eshop@ekokoza.cz

E-mail address

Responsible/issuing person

#### 1.4. Telephone number for emergencies

Telephone number for emergencies

: Toxicology Information Center

On the battlefield 1

128 21 Prague

tel. 00420-224 919 293

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

REGULATION (EC) No. 1272/2008			
By hazard class	Hazard categories	Target organs	Standard hazard statements
Serious eye damage	Category 1	---	H318



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For the full text of the H-statements given in this section, see section 16.

### Most serious adverse effects

Human health	: See section 11 for toxicological information
Physical and chemical hazards	: See section 9/10 for physicochemical information
Possible effects on the environment	: See section 12 Ecological information

## 2.2. Marking elements

### Labeling according to Regulation (EC) No. 1272/2008

Danger symbols :



With a signal word : Danger

Standard hazard statements : H318 Causes serious eye damage.  
Instructions for safe handling

Prevention	: P280	Wear protective gloves/protective clothing/ safety glasses/face shield.
Measures	: P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if worn and if they can be removed easily. Continue rinsing. Call a TOXICOLOGICAL INFORMATION CENTER/ doctor immediately.
Removal	: P501	Dispose of contents/packaging in accordance with applicable regulations.

### Hazardous components that must be listed on the label:

Fatty acids, coco, 2-sulfoethyl esters, sodium salts  
Butanedioic acid, sulfo-, 4-C12-14-alkyl esters, disodium salts

## 2.3. Another danger

Results of PBT and vPvB assessment see point 12.5.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

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Dangerous components	Content [%]	Classification (REGULATION (EC) No. 1272/2008)	
		By hazard class / Hazard categories	Standard hazard statements
<b>Fatty acids, coconut, 2-sulfoethyl esters, sodium salts</b> CAS: 61789-32-0 EC No.: 263-052-5 Reg. No. REACH: 01-2119974104-40-xxxx	<= 14.45	Eye Irritation. 2 Aquatic Chronic 3	H319 H412
<b>Butanedioic acid, sulfo-, 4-C12-14-alkyl esters, disodium salts</b> CAS No.: 90268-37-4 EC No.: 290-838-5 Reg. No. REACH: 01-2119982970-25-xxxx	<=5.0	Acute Tox.4 Eye Dam. 1 Aquatic Chronic 3	H302 H318 H412

For the full text of the H-statements given in this section, see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid

General instructions	: Remove contaminated clothing immediately.
When inhaled	: Remove victim to fresh air. In case of persistent problems, call a doctor.
In contact with skin	: Wash immediately with soap and plenty of water. If skin irritation persists, call a doctor.
In contact with eyes	: IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses, if worn and if they can be removed easily. Continue rinsing. Consult a doctor. In case of persistent problems, call a doctor.
When ingested	: Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Rinse your mouth with water. Seek medical attention.

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

Symptoms	: See section 11 for more information on symptoms and health effects
Effects	: See section 11 for more information on symptoms and health effects

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

Treatment	: Symptomatic treatment.
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### SECTION 5: Firefighting measures



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### 5.1. Fire extinguishers

Suitable extinguishing agents	: Water jets, foam, powder, CO2 or sand.
Unsuitable fire extinguishers	: Full flow of water

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

Specific firefighting hazards	: irritating gases/vapours
Hazardous combustion products	: Carbon monoxide (CO), carbon dioxide (CO2)

### 5.3. Instructions for firefighters

Special protective equipment for firefighters	: Use self-contained breathing apparatus in case of fire. Use personal protective equipment.
Additional recommendations.	: Collect contaminated water used for extinguishing separately. Water must not be let into the sewer. Forms slippery/greasy layers with water. Move undamaged containers out of immediate danger if it can be done safely. Use a stream of water to cool endangered containers.

## SECTION 6: Accidental release measures

### 6.1. Personal protection measures, protective equipment and emergency procedures

Personal protection measures : Use suitable protective equipment. Keep unprotected persons at a safe distance. Provide adequate ventilation.  
Avoid contact with skin and eyes.

### 6.2. Environmental protection measures

Environmental protection measures	: Do not allow to enter surface waters or drains. Prevent subsoil penetration. Local authorities should be notified in the event of a release of a significant amount of substance that cannot be captured.
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### 6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up	: Pick up mechanically. Store in a suitable closed container.
More information	: Process the collected material in the manner indicated in the "Waste disposal" section.

### 6.4. Link to other sections

See Section 1 for emergency contact information, Section 8 for protective equipment and Section 13 for waste disposal information.

## SECTION 7: Handling and storage



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### 7.1. Precautions for safe handling

Instructions for safe handling	: Keep the container tightly closed. Provide adequate ventilation. Use personal protective equipment. Avoid splashing on skin and clothing and getting into eyes. An effective and safe eyewash must be located at the closest distance.
Hygiene measures	: Keep away from food, drink and feed. Smoking, eating and drinking should be prohibited in the area of use. Wash your hands before a work break and after finishing work. Remove contaminated clothing immediately.

### 7.2. Conditions for safe storage of substances and mixtures, including incompatible substances and mixtures

Requirements for storage areas and containers	: Store in original packaging.
Instructions for protection against fire and explosion	: Common fire protection measures.
More information on storage conditions	: Store tightly closed in a cool, dry place.
Storage instructions	: Keep away from food, drink and feed.

### 7.3. Specific end / specific end uses

Specific (specific) uses	: No information available.
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## SECTION 8: Exposure controls / personal protective equipment

### 8.1. Control parameters

#### Other Exposure limit values

More information	: Does not contain any substances with limit values of exposure to workplace.
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### 8.2. Limiting exposure

#### Appropriate technical controls

Refer to paragraphs 7 and 8 for safety precautions.

#### Personal protective equipment

##### *Respiratory protection*

Recommendation	: Usually not required. It is required when the exposure limit (e.g. OEL) is exceeded. Respiratory protection complying with the EN 141 standard.
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##### *Hand protection*



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Recommendation : Protective gloves conforming to EN 374.  
Please follow the glove supplier's instructions regarding permeability and breakthrough time. Also consider the specific local conditions under which the product is used, such as cutting hazards, abrasion and long contact time.  
Replace protective gloves at the first sign of wear.

Material : Nitrile rubber

### *Eye protection*

Recommendation : Safety goggles

### *Skin and body protection*

Recommendation : Use personal protective equipment.

### **Limiting environmental exposure**

General instructions : Do not allow to enter surface water or drains.  
Prevent subsoil penetration.

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

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

Form	: Solid form
Color	: According to composition
Odor	: Data not available
Odor Threshold	: Data not available
pH	: about 6
Freezing point	: Data not available
Boiling point	: Data not available
Flash-point	: Data not available
Evaporation rate	: Data not available
Flammability (solids, gases)	: Data not available
Upper explosive limit	: Data not available
Lower explosive limit	: Data not available
Steam pressure	: Data not available
Relative vapor density	: Data not available
Relative density	: Data not available



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Solubility in water	: partially soluble substance
Partition coefficient: n-octanol/water	: Data not available
Auto-ignition temperature	: Data not available
Thermal decomposition	: Data not available
Dynamic viscosity	: Data not available
Explosiveness	: Data not available
Oxidizing properties	: Data not available

### 9.2. More information

No further information is available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Recommendation	: When observing the specified method of storage and use no decomposition occurs.
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### 10.2. Chemical stability

Recommendation	: Stable under recommended storage conditions.
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### 10.3. Possibility of hazardous reactions

Hazardous reactions	: No information available.
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### 10.4. Conditions to avoid

Conditions to avoid	: Keep away from sources of heat and fire.
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### 10.5. Incompatible materials

Materials to avoid	: Strong oxidizing agents
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### 10.6. Hazardous decomposition products

Hazardous decomposition products	: Does not decompose under normal conditions. In case of fire: irritating gases/vapours, carbon oxides.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects



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### Data for the product

#### Acute toxicity

##### Orally

Data not available

##### Inhalation

Data not available

##### Cutaneous

Data not available

#### Irritability

##### Skin

Result : may irritate the skin

##### Eyes

Result : Causes serious eye damage.

#### Sensitization

Data not available

#### Effects of CMR

##### CMR properties

Carcinogenicity : Data not available

Mutagenicity : Data not available

Reproductive toxicity : Data not available

#### Specific organ toxicity

##### A single exposure

Data not available

##### Repeated exposure

Data not available

#### Other toxic properties

##### Repeated dose toxicity





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Data not available

### Inhalation hazard

Data not available

## SECTION 12: Ecological information

### 12.1. Toxicity

Data not available

### 12.2. Persistence and degradability

Data not available

### 12.3. Bioaccumulative potential

Data not available

### 12.4. Mobility in soil

Data not available

### 12.5. Results of PBT and vPvB assessment

#### Data for the product

#### Results of PBT and vPvB assessment

Result : The substance/mixture does not contain components considered to be either persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at a concentration of 0.1% or higher.

### 12.6. Other adverse effects

#### Data for the product

#### Additional ecological information

Result : Do not allow to enter surface waters or drains.  
Prevent subsoil penetration.

## SECTION 13: Disposal considerations

### 13.1. Waste management methods

Product : Disposal together with ordinary waste is not allowed. It is special disposal method required in accordance with local regulations. Do not allow to enter drains. Contact a waste disposal service.



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Contaminated packaging	: Handle contaminated packaging professionally. Packaging can be recycled after thorough and careful cleaning. If recycling is not possible, dispose of in accordance with local regulations.
Number from the European waste catalog	: This product cannot be assigned any code from the European Waste Catalog because its assignment is determined by the intended use. The waste code was established in consultation with the local authorities responsible for waste disposal.

### SECTION 14: Transport information

Not dangerous goods in terms of transport: ADR, RID, IMDG and IATA.

#### 14.1. UN number

not applicable

#### 14.2. Official (UN) shipping name

not applicable

#### 14.3. Transport hazard class(es).

not applicable

#### 14.4. Packaging group

not applicable

#### 14.5. Danger to the environment

not applicable

#### 14.6. Special safety measures for users

not applicable

#### 14.7. Bulk transport according to Annex II of MARPOL 73/78 and the IBC regulation

IMDG : not applicable

### SECTION 15: Regulatory Information

#### 15.1. Safety, Health and Environmental Regulations/ Specific Legislation relating to a substance or mixture

##### Data for the product

Other regulations : The product is labeled according to EU directives or applicable national regulations. Take note of all the laws mentioned



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with regard to later changes as amended. 350/2011 LAW of 27 October 2011 on chemical substances and chemical mixtures and on the amendment of certain laws (chemical law) with effect from 1 January 2012 Directive (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures, on change a repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended. 1) Council Directive 67/548/EEC on the convergence of legal and administrative regulations relating to the classification, packaging and labeling of dangerous substances, as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18 December 2006 on the registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/796/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation of the European Parliament and of the Council (EC) No. 689/2008 of 17 June 2008 on the export and import of hazardous chemical substances.

Regulation of the European Parliament and of the Council (EC) No. 648/2004 of March 31, 2004 on detergents, as amended.  
European Parliament and Council Regulation (EC) No. 850/2004 of April 29, 2004 on persistent organic pollutants and amending Directive 79/117/EEC, as amended. Regulation of the European Parliament and of the Council (EC) No. 1272/2008 of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and on the amendment of the Regulation (EC) No. 1907/2006, as amended.  
Commission Regulation (EC) No. 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, as amended. Commission Regulation (EC) No. 340/2008 of 16 April 2008 on fees and payments to the European Chemicals Agency pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Art. 2 paragraph 7 of Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended. 4) Art. 2 paragraph 8 of Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, on the amendment and repeal of Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006, as amended. Commission Regulation (EC) No. 440/2008 of 30 May 2008 laying down test methods pursuant to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemical Substances, as amended. Law no.

111/1994 Coll., on road transport, as amended, European Agreement on the International Carriage of Dangerous Goods by Road (ADR), promulgated under No. 64/1987 Coll., as amended. Act No. 114/1995 Coll., on inland navigation, as amended.



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Decree No. 17/1966 Coll., on air transport regulations, as amended by Decree No. 15/1971 Coll. Act No. 61/2000 Coll., on maritime navigation. Government Regulation No. 361/2007 Coll., which establishes conditions for health protection at work, as amended by Government Regulation No. 68/2010 Coll. Art. 31 Regulation of the European Parliament and of the Council (EC) No. 1907/2006 of 18 December 2006 on the registration, evaluation, authorization and restriction of chemical substances, on the establishment of the European Chemicals Agency, on the amendment Directive 1999/45/EC and on the repeal of Council Regulation (EEC) No. 793/93, Commission Regulation (EC) No. 1488/94, Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Art. 9 paragraph 3 and Annex VII of Regulation (EC) No. 648/2004 of the European Parliament and of the Council of March 31, 2004 on detergents, as amended. European Parliament and Council Regulation (EC) No. 850/2004 of April 29, 2004 on persistent organic pollutants and amending Directive 79/117/EEC, as amended.

### 15.2. Chemical safety assessment

Data not available

## SECTION 16: Further information

### Full text of the H-statements given in sections 2 and 3.

H315	It irritates the skin.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.

### Abbreviations and acronyms

BCF	bioconcentration factor
BOD	biochemical oxygen consumption
TIME	Chemical Abstracts Service
CLP	classification, labeling and packaging
CMR	carcinogenic, mutagenic or toxic for reproduction chemical
COD	oxygen demand derived level at
TODAY	which no adverse effects occur
EINECS	European list of existing traded chemical substances
ELINCS	European list of notified chemical substances globally
GHS	harmonized system of classification and labeling of chemical substances
LC50	medium lethal concentration
LOAEC	lowest concentration with observed adverse effect lowest dose with
LOAEL	observed adverse effect lowest dose with observed effect
LOL	



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**NLP**

substance no longer considered a polymer no-observed-

**NOAEC**

adverse-effect dose value no-observed-adverse-effect

**NOAEL**

concentration no-observed-effect dose-value

**NOEC**

**CHRISTMAS**

**OECD**

Organization for Economic Cooperation and Development

**OEL**

workplace exposure limit value persistent,

**PBT**

bioaccumulative and toxic

**REACH Auth. well:**

REACH Authorization Number

**REACH AuthAppC. Well**

REACH Authorization Application Consultation Number no-adverse

**PNEC**

effect concentration estimate specific target organ toxicity substance of very

**STOT**

high concern substance of unknown or

**SVHC**

variable composition, complex reaction

**UVCB**

product or biological material highly persistent and highly bioaccumulative

**vPvB**

### More information

Important literature  
references and data sources

: Supplier information and data from the "Database of Registered Substances"  
of the European Chemicals Agency (ECHA) were used to create this safety  
data sheet.

Methods used for  
product classification.

: Classifications for human health, physical and chemical hazards and  
environmental hazards have been derived using a combination of  
calculation methods and possible, available test data.

Training Guidelines

: Workers must be regularly trained on the safe handling of the  
products based on the information provided in the safety data  
sheet and local workplace conditions.  
National regulations for the training of workers in the handling of  
hazardous substances must be observed.

More information

:  
The information contained in this safety data sheet is to  
the best of our knowledge at the time the revision was made.  
The information only describes the product with regard  
to handling safety, it is not a quality specification, it does  
not establish the law. The information contained in this  
safety data sheet applies only to this material and may not  
be valid for this material used in combination with  
another material or in another process not described in the text.

|| The section has been redesigned.