

**SAFETY DATA SHEET**

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 02/26/2020

Version 1.5

**SECTION 1. Identification****Product identifier**

|                |                  |
|----------------|------------------|
| Product number | SX1075           |
| Product name   | SUCROSE CRYSTALS |
| CAS-No.        | 57-50-1          |

**Relevant identified uses of the substance or mixture and uses advised against**

|                 |                      |
|-----------------|----------------------|
| Identified uses | Reagent for analysis |
|-----------------|----------------------|

**Details of the supplier of the safety data sheet**

|         |                                                                                                                                                                                                                                                                                |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Company | EMD Millipore Corporation   400 Summit Drive   Burlington   Massachusetts 01803   United States of America   General Inquiries: +1 800-645-5476   Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)<br>MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany. |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                            |                                                                                                      |
|----------------------------|------------------------------------------------------------------------------------------------------|
| <b>Emergency telephone</b> | 800-424-9300 CHEMTREC (USA)<br>+1-703-527-3887 CHEMTREC (International)<br>24 Hours/day; 7 Days/week |
|----------------------------|------------------------------------------------------------------------------------------------------|

**SECTION 2. Hazards identification****GHS-Labeling**

Not a dangerous substance according to GHS.

**Other hazards**

None known.

**SECTION 3. Composition/information on ingredients**

|            |                                                        |
|------------|--------------------------------------------------------|
| Formula    | C <sub>12</sub> H <sub>22</sub> O <sub>11</sub> (Hill) |
| Molar mass | 342.29 g/mol                                           |

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## **Hazardous ingredients**

*Chemical name (Concentration)*

CAS-No.

*Saccharose ( $\geq 90\%$  -  $\leq 100\%$ )*

57-50-1

Exact percentages are being withheld as a trade secret.

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## **SECTION 4. First aid measures**

### **Description of first-aid measures**

*Inhalation*

After inhalation: fresh air.

*Skin contact*

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

*Eye contact*

After eye contact: rinse out with plenty of water. Remove contact lenses.

*Ingestion*

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

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

We have no description of any toxic symptoms.

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

No information available.

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## **SECTION 5. Fire-fighting measures**

### **Extinguishing media**

*Suitable extinguishing media*

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

Development of hazardous combustion gases or vapors possible in the event of fire.

### **Advice for firefighters**

*Special protective equipment for fire-fighters*

In the event of fire, wear self-contained breathing apparatus.

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*Further information*  
none

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## SECTION 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

### Environmental precautions

No special precautionary measures necessary.

### Methods and materials for containment and cleaning up

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

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## SECTION 7. Handling and storage

### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Store at room temperature.

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## SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

#### Components

| Basis                     | Value                             | Threshold limits     | Remarks                                |
|---------------------------|-----------------------------------|----------------------|----------------------------------------|
| <b>Saccharose 57-50-1</b> |                                   |                      |                                        |
| ACGIH                     | Time Weighted Average (TWA):      | 10 mg/m <sup>3</sup> |                                        |
| NIOSH/GUIDE               | Recommended exposure limit (REL): | 10 mg/m <sup>3</sup> | Form of exposure: Total                |
|                           | Recommended exposure limit (REL): | 5 mg/m <sup>3</sup>  | Form of exposure: Respirable.          |
| OSHA_TRANS                | PEL:                              | 15 mg/m <sup>3</sup> | Form of exposure: Total dust.          |
|                           | PEL:                              | 5 mg/m <sup>3</sup>  | Form of exposure: Respirable fraction. |
| Z1A                       | Time Weighted Average (TWA):      | 15 mg/m <sup>3</sup> | Form of exposure: Total dust.          |
|                           | Time Weighted Average (TWA):      | 5 mg/m <sup>3</sup>  | Form of exposure: Respirable fraction. |

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

### Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

### Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

### Eye/face protection

Safety glasses

### Hand protection

full contact:

Glove material: Nitrile rubber  
Glove thickness: 0.11 mm  
Break through time: 480 min

splash contact:

Glove material: Nitrile rubber  
Glove thickness: 0.11 mm  
Break through time: 480 min

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The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

## *Respiratory protection*

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer.

These measures have to be properly documented.

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

|                           |                                      |
|---------------------------|--------------------------------------|
| Physical state            | solid                                |
| Color                     | off-white                            |
| Odor                      | odorless                             |
| Odor Threshold            | Not applicable                       |
| pH                        | ca. 7<br>at 100 g/l<br>68 °F (20 °C) |
| Melting point             | No information available.            |
| Boiling point             | No information available.            |
| Flash point               | No information available.            |
| Evaporation rate          | No information available.            |
| Flammability (solid, gas) | No information available.            |
| Lower explosion limit     | No information available.            |

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|                                        |                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------|
| Upper explosion limit                  | No information available.                                                   |
| Vapor pressure                         | No information available.                                                   |
| Relative vapor density                 | No information available.                                                   |
| Density                                | No information available.                                                   |
| Relative density                       | No information available.                                                   |
| Water solubility                       | at 68 °F (20 °C)<br>soluble                                                 |
| Partition coefficient: n-octanol/water | log Pow: -3.70<br>(experimental)<br>(Lit.) Bioaccumulation is not expected. |
| Autoignition temperature               | No information available.                                                   |
| Decomposition temperature              | > 336 °F (> 169 °C)                                                         |
| Viscosity, dynamic                     | No information available.                                                   |
| Explosive properties                   | Not classified as explosive.                                                |
| Oxidizing properties                   | none                                                                        |
| Bulk density                           | ca.800 - 950 kg/m <sup>3</sup>                                              |
| Conductivity                           | <= 35 µS/cm<br>at 68 °F(20 °C)                                              |

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### SECTION 10. Stability and reactivity

#### Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

#### Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

#### Possibility of hazardous reactions

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Violent reactions possible with:  
Strong oxidizing agents

## Conditions to avoid

Strong heating (decomposition).

## Incompatible materials

no information available

## Hazardous decomposition products

no information available

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## SECTION 11. Toxicological information

### Information on toxicological effects

#### *Likely route of exposure*

Eye contact, Skin contact, Ingestion

#### *Target Organs*

Eyes

Respiratory system

#### *Acute oral toxicity*

LD50 Rat: 29,700 mg/kg (RTECS)

#### *Genotoxicity in vitro*

Mutagenicity (mammal cell test):

Result: negative

(National Toxicology Program)

#### *Specific target organ systemic toxicity - single exposure*

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### *Specific target organ systemic toxicity - repeated exposure*

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### *Aspiration hazard*

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

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|       |                                                                                                                                               |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| NTP   | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.      |
| ACGIH | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. |

## Further information

Substances which occur in nature  
Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.  
Handle in accordance with good industrial hygiene and safety practice.

## SECTION 12. Ecological information

### Ecotoxicity

No information available.

### Persistence and degradability

No information available.

### Bioaccumulative potential

*Partition coefficient: n-octanol/water*  
log Pow: -3.70  
(experimental)  
(Lit.) Bioaccumulation is not expected.

### Mobility in soil

No information available.

## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## SECTION 14. Transport information

### Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

### Air transport (IATA)

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Not classified as dangerous in the meaning of transport regulations.

## Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

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## SECTION 15. Regulatory information

### United States of America

#### 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.

#### SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### 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

#### DEA List I

Not listed

#### DEA List II

Not listed

### US State Regulations

#### Massachusetts Right To Know

*Components*

Saccharose

#### Pennsylvania Right To Know

*Components*

Saccharose

#### California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

### Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

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

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## SECTION 16. Other information

### Training advice

Provide adequate information, instruction and training for operators.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

Revision Date 02/26/2020

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