# SAFETY DATA SHEET

**Regulation (EC) No 1907/2006 (REACH), Annex II**
**(COMMISSION REGULATION (EU) No 2015/830)**

**Version** 1 **Issue Date** 26-Feb-2015
**Product Name** Sorbic acid **Revision date** 20-Feb-2021

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

### 1.1. Product identifier

| | |
|---|---|
| Product Name | Sorbic acid |
| CAS No | 110-44-1 |
| REACH registration number | 17-2120081313-64-0000 |

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

| | |
|---|---|
| Recommended Use | |
| Uses advised against | No information available |

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

| | |
|---|---|
| OR | REACH24H Consulting Group |
| Address | Paramount Court, Corrig Road, Sandyford, Dublin 18, Ireland |
| Email | reach@reach24h.com |
| | |
| Supplier | Shandong Kunda Biotechnology Company Limited |
| Address | Yishui Economic Development Zone, Yishui County, Shandong, China |
| Postal Code | 276400 |
| Phone | +86-532-68602833 |
| FAX | |
| E-mail | kdbiotech@163.com |
| | |
| Importer | |
| Address | |
| Postal Code | |
| Phone | |
| FAX | |
| E-mail | |

### 1.4. Emergency telephone number

+86-532-68602833

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Skin corrosion/irritation Category 2 - (H315)
Serious eye damage/eye irritation Category 2 - (H319)
Specific target organ toxicity (single exposure) Category 3 - (H335)

### 2.2. Label elements

Symbols/Pictograms

| | |
|---|---|
| Signal word | Warning |
| Hazard Statements | H315 - Causes skin irritation |
| | H319 - Causes serious eye irritation |

| | |
|---|---|
| | H335 - May cause respiratory irritation. |
| Precautionary Statements | P261 - Avoid breathing dust/fume/gas/mist/vapors/spray<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing<br>P337 + P313 - If eye irritation persists: Get medical advice/attention<br>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed<br>P501 - Dispose of contents/ container to an approved waste disposal plant |

### 2.3. Other hazards

Dust forms explosive mixtures with air.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

| Chemical Name | EC No | CAS No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|---|
| Sorbic acid | 203-768-7 | 110-44-1 | 100 | Skin Irrit. 2<br>Eye Irrit. 2<br>STOT SE 3 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General advice**

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

**Skin Contact**

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth Get medical attention Never give anything by mouth to an unconscious person

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

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

| | |
|---|---|
| **Suitable extinguishing media** | Water (spray - not splash)<br>Dry extinguishing powder<br>Alcohol resistant foam<br>Carbon dioxide |
| **Unsuitable extinguishing media** | Do not use water jet. |

### 5.2. Special hazards arising from the substance or mixture
Thermal decomposition can lead to release of irritating and toxic gases and vapors

### 5.3. Advice for firefighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures
Evacuate personnel to safe areas
Ensure adequate ventilation, especially in confined areas
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area)
Avoid contact with skin, eyes or clothing
Contaminated work clothing should not be allowed out of the workplace
Avoid generation of dust
Do not breathe dust
Use personal protection recommended in Section 8
Wash thoroughly after handling

### 6.2. Environmental precautions
Avoid release to the environment

### 6.3. Methods and material for containment and cleaning up
Use protective equipment while cleaning if necessary.
Avoid dust formation. Dust formation that cannot be avoided must be collected regularly.
Use tested industrial vacuum cleaners or suction systems for areas with a high risk of explosion.
Do not raise dust while cleaning.
Use of a blower for cleaning is not permitted.

### 6.4. Reference to other sections
See Section 7 for more information
See section 8 for more information
See section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling
Take care to maintain clean working place.
Do not leave container open.
Sufficient ventilation must be guaranteed for refilling, transfer, or open use.
Avoid spillage.
Fill only into labelled container.
Avoid rising dust.

### 7.2. Conditions for safe storage, including any incompatibilities
Do not use any food containers - risk of mistake.
Containers have to be labelled clearly and permanently.
Store in the original container as much as possible.
Keep container tightly closed.
Recommended storage at room temperature.
Store in a dry place.

### 7.3. Specific end use(s)
Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available.

**Derived No Effect Level (DNEL)**

No information available.

**Predicted No Effect Concentration (PNEC)**

No information available.

### 8.2. Exposure controls

**Engineering Controls**

Provision of good ventilation in the working area.
Washing facility at the workplace required.
Eye bath required. These locations must be signposted
Clearly.

**Personal protective equipment**

| | |
|---|---|
| Eye/face protection | Sufficient eye protection must be worn.<br>Wear glasses with side protection. |
| Hand Protection | Use protective gloves. The glove material must be sufficiently impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.<br>Pay attention to skin care.<br>Skin protection cremes do not protect sufficiently against the substance.<br>The following materials are suitable for protective gloves:<br>Nitrile rubber/Nitrile latex - NBR<br>Layer strength 0,11 mm , break-through time > 480 min |
| Skin and body protection | Depending on the risk, wear a tight protective clothing or a suitable chemical protection suit. |
| Respiratory protection | In an emergency (e.g.: unintentional release of the substance) respiratory protection must be worn. Consider the maximum period for wear.<br>Respiratory protection: Particle filter P2 or P3, colour code white.<br>Use insulating device for concentrations above the usage limits for filter devices, for oxygen concentrations below 17% volume, or in circumstances which are unclear. |

**Environmental exposure controls**

Low hazard to waters. Inform the responsible authorities when very large quantities get into water, drainage, sewer, or the ground.

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| **Appearance** | Powder |
| **Color** | White |
| **Odor** | Faint |
| **Odor Threshold** | Not determined |
| **pH** | ca. 3.3(20 °C, 1.6 g/L) |
| **Melting point/freezing point** | 134 °C |
| **Boiling point / boiling range** | The substance decomposes when heated |
| **Flash point** | 125 °C |
| **Evaporation rate** | Not determined |
| **Flammability (solid)** | Combustible solid |
| **Flammability Limit in Air** | Not determined |
| **Vapor Pressure** | Not determined |
| **Vapor density** | 3.87 |

| | |
|---|---|
| **Density** | 1.2 g/cm³(20 °C) |
| **Relative density** | 1.2 (20 °C) |
| **Specific gravity** | Not determined |
| **Water solubility** | 1.6 g/L(20 °C) |
| **Partition coefficient (LogPow)** | 1.33 |
| **Autoignition temperature** | 415 °C |
| **Decomposition temperature** | 190 °C |
| **Kinematic viscosity** | Not determined |
| **Dynamic viscosity** | Not determined |
| **Explosive properties** | Dust forms explosive mixtures with air |
| **Oxidizing properties** | Not determined |

**9.2. Other information**
No information available

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
No information available.

**10.2. Chemical stability**
Stable under normal conditions.

**10.3. Possibility of hazardous reactions**
Dust forms explosive mixtures with air.

**10.4. Conditions to avoid**
Light, air. Heat, flames and sparks

**10.5. Incompatible materials**
Bases.
Oxidizing agents.
Reducing agents.

**10.6. Hazardous decomposition products**
Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute toxicity**
Acute oral toxicity (LD50): 7360 mg/kg [Rat]

**Skin corrosion/irritation**
Causes skin irritation.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Sensitization**
Not sensitizing to skin.

**Germ cell mutagenicity**
Negative.

**Carcinogenicity**
Negative.

**Reproductive toxicity**
No information available.

**STOT - single exposure**
May cause respiratory irritation.

**STOT - repeated exposure**
No information available.

**Aspiration hazard**
No information available.

## SECTION 12: Ecological information

**12.1. Toxicity**
Fish LC50(96h): 75 mg/L
Aquatic invertebrates EC50(48h): 70 mg/L
Aquatic algae and cyanobacteria EC50(72h): 69 mg/L

**12.2. Persistence and degradability**
After 7 days, 65.5 %, of the ThOD were removed.
Readily biodegradable

**12.3. Bioaccumulative potential**
No information available.

**12.4. Mobility in soil**
No information available

**12.5. Results of PBT and vPvB assessment**
The substance is not P/vP or B/vB

**12.6. Other adverse effects**
No information available

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

| | |
|---|---|
| Waste from residues/unused products | Disposal should be in accordance with applicable regional, national and local laws and regulations |
| Contaminated packaging | Disposal should be in accordance with applicable regional, national and local laws and regulations |

## SECTION 14: Transport information

| | | |
|---|---|---|
| **14.1** | **UN Number** | Not regulated |
| **14.2** | **Proper shipping name** | Not regulated |
| **14.3** | **Hazard Class** | Not regulated |
| **14.4** | **Packing Group** | Not regulated |
| **14.5** | **Environmental hazards** | Non-marine pollutant |
| **14.6** | **Special precautions** | No information available |

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable

## SECTION 15: Regulatory information

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work
Take note of Directive 94/33/EC on the protection of young people at work
Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

**International Inventories**

| Component | TSCA | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|
| Sorbic acid 110-44-1 ( 100% ) | X | X | X | X | X | X | X | X |

*"-" Not Listed*
*"X" Listed*

**15.2. Chemical safety assessment**
No information available

## SECTION 16: Other information

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**Issue Date** 26-Feb-2015
**Revision date** 25-May-2018
**Revision Note** Remove the information related to Directive 67/548/EEC or 1999/45/EC

**Key or legend to abbreviations and acronyms used in the safety data sheet**
**TWA** - TWA (time-weighted average)
**STEL** - STEL (Short Term Exposure Limit)
**Ceiling** - Maximum limit value
**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
**ENCS** - Japan Existing and New Chemical Substances
**IECSC** - China Inventory of Existing Chemical Substances
**KECL** - Korean Existing and Evaluated Chemical Substances
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances
**AICS** - Australian Inventory of Chemical Substances

**Full text of H-Statements referred to under section 3**
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

**Disclaimer**
The information provided in this Material 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.

-------- End of Safety Data Sheet --------