

**Product Name** Nutrinova® Sorbic acid  
**MSDS number** 81033  
**Revision Number** 1.02

**Revision Date** Mar.05.2019  
**Issuing date** Mar.05.2019

AGHS/EN

## 1. Identification of the substance/preparation and the company/undertaking

**Product Name**

**Nutrinova® Sorbic acid**

**Manufacturer or supplier's details**

**Celanese Production Germany GmbH & Co. KG**

Am Unisys-Park 1  
65843 Sulzbach (Taunus)  
Germany

**Product Information**

HazCom@celanese.com

**Emergency telephone number**

+(65) 62656917 (Operations Room direct dial)  
or fax request to +(65) 62664696 (Facsimile to Operations Room)  
or email to posh.er@paccoffshore.com.sg

**In China Emergency Number:** 86-532-83889090 (NRCC)

**Identified uses**

Preservative in the food industry, feed additive, pharmaceutical

## 2. Hazards identification

**Symbol(s)**



**Signal Word**

Warning

**Hazard Statements**

H315 - Causes skin irritation  
H320 - Causes eye irritation  
H335 - May cause respiratory irritation  
H336 - May cause drowsiness and dizziness

# SAFETY DATA SHEET



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**Precautionary Statements**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 - Wash hands thoroughly after handling
- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P332 + P313 - If skin irritation occurs: Get medical advice/attention
- P362 - Take off contaminated clothing and wash before reuse
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 - If eye irritation persists: Get medical advice/attention
- P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- P312 - Call a POISON PHYSICIAN/doctor/physician if you feel unwell.
- P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
- P405 - Store locked up
- P501 - Dispose of contents/container in accordance with local regulations.

## 3. Composition/Information on ingredients

Components	CAS-No	Percent %
Hexa-2,4-dienoic acid	110-44-1	100

## 4. First aid measures

### Skin

Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.

### Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

### Inhalation

Get medical attention immediately if symptoms occur. Move to fresh air in case of accidental inhalation of vapors.

### Ingestion

Do NOT induce vomiting. Call a physician immediately.

## 5. Fire-fighting measures

### Suitable extinguishing media

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

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### **Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases**

Under conditions giving incomplete combustion, hazardous gases produced may consist of  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Combustion gases of organic materials must in principle be graded as inhalation poisons  
Risk of dust explosion

### **Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

### **Environmental precautions**

Dike and collect water used to fight fire. Water used to fight fire runoff can cause environmental damage.

## **6. Accidental release measures**

### **Personal precautions**

Avoid contact with the skin and the eyes. Keep away from heat and sources of ignition. Provide adequate ventilation. Do not breathe dust. Move out of dangerous area.

### **Environmental precautions**

Prevent further leakage or spillage. Do not discharge into the drains/surface waters/groundwater.

### **Methods for cleaning up**

Use mechanical handling equipment. Dispose of in accordance with local regulations.

## **7. Handling and storage**

### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing.

### **Incompatible products**

No special restrictions on storage with other products

### **Protection - fire and explosion:**

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### **Dust Explosion Group**

Class 1

### **Material storage**

Store locked up. Keep in a dry, cool place. Protect against light.

### **Incompatible products**

No special restrictions on storage with other products

### **Technical measures/Storage conditions**

Keep tightly closed in a dry, cool and well-ventilated place.

## **8. Exposure controls / personal protection**

### **ACGIH Exposure Limits**

No exposure limits established.

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## OSHA Exposure Limits

No exposure limits established.

## Exposure controls

### Engineering measures

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

### Personal protective equipment

#### General advice

Avoid contact with skin and eyes. Do not breathe dust.

#### Hygiene measures

Avoid contact with the skin and the eyes.. When using, do not eat, drink or smoke.. Wash hands before breaks and at the end of workday..

#### Respiratory protection

respirator with P2 filter. Equipment should conform to EN 136 or EN 140 and EN 143.

#### Eye protection

Tightly fitting safety goggles. Face-shield.

#### Skin protection

Protective suit

#### Hand protection

Chemicals resistant gloves

##### Suitable material

Nitrile rubber

##### Evaluation

according to EN 374: level 6

##### Material thickness

Approx. 0.5 mm

##### Break through time

480 min

## 9. Physical and chemical properties

### Appearance

**Form** powder  
**Color** white  
**Odor** odorless

**Flash point** Not applicable  
**Ignition temperature** > 120°C  
**Melting point/range** 134 °C  
**Boiling point/range** 170 °C  
**Density** 1.2 g/ml @ 20°C  
**pH** 3.3 @ 20°C @ 1.6 g/l  
**Viscosity** not applicable  
**Vapor pressure** 1.8 x 10<sup>-4</sup> hPa @ 20°C  
**Water solubility** 1.56 g/l @ 20°C  
**Solubility in other solvents** Not determined  
 -1.72 @ 20°C (pH: 6.5)  
**Explosive Properties** not applicable based on consideration of the structure

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## 9. Physical and chemical properties

**Oxidizing Properties** not applicable based on consideration of the structure  
**Dissociation constant** pKa = 4.65 ± 0.04  
**Granulometry** L10: 16.57 µm L90: 254.18 µm

## 10. Stability and reactivity

### Reactivity

Stable under normal conditions of handling, use and transportation.

### Conditions to avoid

Avoid dust formation..

### Incompatible Materials

Keep away from:., Oxidizing agents

### Hazardous Combustion or Decomposition Products:

Thermal decomposition products may include oxides of carbon.

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## 11. Toxicological information

### Potential health effects

**Routes of exposure** Skin, eyes, inhalation.

### Immediate effects

**Skin** Causes skin irritation.  
**Eyes** Causes eye irritation.  
**Inhalation** May cause respiratory tract irritation.

### Hexa-2,4-dienoic acid

**Acute oral toxicity** LD50: > 10000 mg/kg, rat  
**Acute dermal toxicity** LD50: > 2000 mg/kg, rat  
**Skin corrosion/irritation** No skin irritation  
Species rabbit  
Method EEC 84/449, B.4  
**Skin Sensitization** nonsensitizer  
Species guinea pig  
Method Similar to: EEC 96/54, B.6  
**Serious eye damage/eye irritation** irritant  
Species rabbit eye  
Method EEC 84/449, B.5  
**Carcinogenic effects** No evidence of carcinogenicity  
Species rats  
**in vitro Mutagenicity** - negative  
**in vivo Mutagenicity** Mammalian Erythrocyte Micronucleus Test in mice: negative  
- Method: OECD 474  
**Repeated exposure** No consistent differences between treated and control groups, although there were some statistically significant differences in the high dose males and/or females

## 12. Ecological Information

### Hexa-2,4-dienoic acid

**Acute fish toxicity** LC50: 1250 mg/l (96h)  
(Reference substance: Potassium sorbate)  
Species: Brachidanio rerio (zebra fish)  
Method: OECD 203  
**Acute daphnia toxicity** EC50: 353 mg/l (48h)  
Species: Daphnia magna  
Method: OECD 202  
**Toxicity to aquatic plants** EC50: 24.1 mg/l (72h)

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<b>Toxicity to bacteria</b>	Species:	Scenedesmus subspicatus
	Method	EC50 (3h): > 100 mg/l
<b>Biodegradation</b>		OECD 209
	Method	Readily biodegradable
<b>Other potential hazards</b>		OECD 301 B
		The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

## 13. Disposal considerations

### **Product information**

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

### **Uncleaned empty packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

## 14. Transport information

**US Department of Transportation** Not regulated

**ADR/RID** Not regulated

**ADN** ADN: Container and Tanker  
Not regulated

**ICAO/IATA** Not restricted

**IMDG** Not regulated

## 15. Regulatory information

### **International Inventories**

Australia (AICS)  
 Canada (DSL)  
 China (IECSC)  
 Europe (EINECS)  
 Japan (ENCS)  
 Japan (ISHL)  
 Korea (KECI)  
 New Zealand (NZIoC)  
 Philippines (PICCS)  
 United States (TSCA)

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## **16. Other information**

### **Prepared By**

Product Stewardship Department  
Celanese

### **Food / Feed Safety Emergency Contact:**

24 h Food / Feed Safety Emergency No:  
(Please contact only in emergency situations) +49 (0)69 305 6418

### **Other Information:**

Observe national and local legal requirements.

Changes against the previous version are marked by \*\*\*

### **Sources of key data used to compile the datasheet**

Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable. The absence of data elements required by ANSI or 1907/2006/EC indicates that no data meeting these requirements is available.

### **Further information**

This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality For more information, other material safety data sheets or technical data sheets please consult the Celanese homepage ([www.celanese.com](http://www.celanese.com))