

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Nutrinova® Sorbic acid

Version 2.0      Revision Date: 2020/07/31      SDS Number: 000000033701      Date of last issue: -  
Date of first issue: 2020/07/31

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Nutrinova® Sorbic acid

Product code : 000000000020008714

#### Manufacturer or supplier's details

Company : Celanese (Shanghai) International Trading Co., Ltd

Address : 4560 Jinke Road, Zhangjiang, Pudong  
Shanghai, China 020 201210

Telephone :

Emergency telephone number : CHEMTREC International phone number: +1-703-741-5970,  
+86 532 8388-9090 (China, 24h)

E-mail address : HazCom@celanese.com

#### Recommended use of the chemical and restrictions on use

Recommended use : Food additive  
Pharmaceutical

### 2. HAZARDS IDENTIFICATION

#### Emergency Overview

<b>Appearance</b>	: powder
<b>Colour</b>	: white
<b>Odour</b>	: odourless


Causes skin irritation. Causes eye irritation.

#### GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2

#### GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H320 Causes eye irritation.

Precautionary statements : **Prevention:**

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Nutrinova® Sorbic acid

Version 2.0      Revision Date: 2020/07/31      SDS Number: 000000033701      Date of last issue: -  
Date of first issue: 2020/07/31

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it 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.

### Physical and chemical hazards

Not classified based on available information.

### Health hazards

Causes skin irritation. Causes eye irritation.

### Environmental hazards

Not classified based on available information.

### Other hazards which do not result in classification

Risk of dust explosion.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	CAS-No.	Concentration (% w/w)
hexa-2,4-dienoic acid	110-44-1	>= 99.9

## 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Do not leave the victim unattended.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Move to fresh air in case of accidental inhalation of vapours.  
Get medical attention immediately if symptoms occur.
- In case of skin contact : Wash off immediately with plenty of water.  
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Get medical advice/ attention.
- If swallowed : Do NOT induce vomiting.  
Call a physician immediately.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Nutrinova® Sorbic acid

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	2020/07/31	000000033701	Date of first issue: 2020/07/31

---

Most important symptoms and effects, both acute and delayed : May cause irritation of respiratory tract.

Notes to physician : Treat symptomatically

---

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray  
Carbon dioxide (CO<sub>2</sub>)  
Foam  
Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Risk of dust explosion.

Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

---

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.

Environmental precautions : Should not be released into the environment.  
Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Keep in suitable, closed containers for disposal.

---

### 7. HANDLING AND STORAGE

#### Handling

Advice on protection against fire and explosion : Avoid dust formation.  
Provide appropriate exhaust ventilation at places where dust is formed.

Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the

---

## Nutrinova® Sorbic acid

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	2020/07/31	000000033701	Date of first issue: 2020/07/31

---

application area.  
Dispose of rinse water in accordance with local and national regulations.

Avoidance of contact : Oxidizing agents

### Storage

Conditions for safe storage : Keep in a dry, cool place.  
Store locked up.  
Protect against light

Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Do not store near acids.

Further information on storage stability : Keep in a dry place.  
No decomposition if stored and applied as directed.

---

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

#### Personal protective equipment

Respiratory protection : Respirator with a dust filter  
Equipment should conform to EN 136 or EN 140 and EN 143.  
Use NIOSH approved respiratory protection.

Filter type : P2 filter

Eye/face protection : Tightly fitting safety goggles  
Face-shield

Skin and body protection : Protective suit

#### Hand protection

Material : Nitrile rubber  
Break through time : 480 min  
Glove thickness : 0.5 mm  
Directive : Protective gloves complying with EN 374.  
Protective index : Class 6

Protective measures : Do not get in eyes, on skin, or on clothing.  
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.

# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Nutrinova® Sorbic acid

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	2020/07/31	000000033701	Date of first issue: 2020/07/31

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Colour	:	white
Odour	:	odourless
pH	:	3.5 (20 °C) Concentration: 1.6 g/l
Melting point/range	:	134 °C
Boiling point/boiling range	:	170 °C
Flash point	:	Not applicable
Vapour pressure	:	0.00018 hPa (20 °C)
Density	:	1.2 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	1.56 g/l (20 °C)
Partition coefficient: n- octanol/water	:	log Pow: 1.32 (20 °C) pH: 2.5 log Pow: -1.720 (20 °C) pH: 6.5
Viscosity Viscosity, dynamic	:	Not applicable
Explosive properties	:	not applicable based on consideration of the structure
Dust explosion class	:	St1

### 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under normal conditions.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed.
Conditions to avoid	:	No data available

## Nutrinova® Sorbic acid

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	2020/07/31	000000033701	Date of first issue: 2020/07/31

---

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

---

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Components:

##### hexa-2,4-dienoic acid:

Acute oral toxicity : LD50 (Rat): > 10,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

#### Skin corrosion/irritation

##### Components:

##### hexa-2,4-dienoic acid:

Species : Rabbit

Method : EEC 84/449, B.4

Result : No skin irritation

Remarks : Based on published data in humans, it causes skin irritation.

#### Serious eye damage/eye irritation

##### Components:

##### hexa-2,4-dienoic acid:

Species : Rabbit

Result : Eye irritation

Method : EEC 84/449, B.5

#### Respiratory or skin sensitisation

##### Components:

##### hexa-2,4-dienoic acid:

Species : Guinea pig

Method : Similar to EEC 96/54, B.6

Result : Not a skin sensitizer.

#### Germ cell mutagenicity

##### Components:

##### hexa-2,4-dienoic acid:

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

## Nutrinova® Sorbic acid

Version 2.0      Revision Date: 2020/07/31      SDS Number: 000000033701      Date of last issue: -  
Date of first issue: 2020/07/31

---

### Carcinogenicity

#### Components:

##### hexa-2,4-dienoic acid:

Species : Rat  
Result : No evidence of carcinogenicity in animal studies.

---

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### hexa-2,4-dienoic acid:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 75 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 70 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 24.1 mg/l  
plants : Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to daphnia and other : EC10 (Daphnia magna (Water flea)): 50 mg/l  
aquatic invertebrates : Method: OECD Test Guideline 211  
(Chronic toxicity)

Toxicity to microorganisms : EC50: > 100 mg/l  
Exposure time: 3 h  
Test Type: activated sludge  
Method: OECD Test Guideline 209

### Persistence and degradability

#### Components:

##### hexa-2,4-dienoic acid:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301D

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Results of PBT and vPvB : This substance/mixture contains no components considered

---

## Nutrinova® Sorbic acid

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	2020/07/31	000000033701	Date of first issue: 2020/07/31

---

assessment	to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
------------	---

---

### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations. Dispose of as hazardous waste in compliance with local and national regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

#### National Regulations

##### GB 6944/12268

Not regulated as a dangerous good

#### Special precautions for user

Not applicable

---

### 15. REGULATORY INFORMATION

#### National regulatory information

---

### 16. OTHER INFORMATION

Date format : yyyy/mm/dd

#### Full text of other abbreviations



# SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



## Nutrinova® Sorbic acid

Version	Revision Date:	SDS Number:	Date of last issue: -
2.0	2020/07/31	000000033701	Date of first issue: 2020/07/31

---

AICS - Australian Inventory of Chemical Substances; AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

The information provided in this 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.

CN / EN