

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Sorbic acid dustfree

Version	Revision Date:	SDS Number:	Date of last issue: 2020/07/31
2.1	2022/02/23	000000033702	Date of first issue: 2020/07/31

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Nutrinova® Sorbic acid dustfree

Product code : 000000000020008716

Manufacturer or supplier's details

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

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

Telephone :

Emergency telephone number : CHEMTREC International phone number: +1-703-527 3887,
+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
Cosmetics

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: powder
Colour	: white
Odour	: odourless

Causes skin irritation. Causes eye irritation. Harmful to aquatic life.

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2

Short-term (acute) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal word : Warning

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Hazard statements : H315 Causes skin irritation.
H320 Causes eye irritation.
H402 Harmful to aquatic life.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P273 Avoid release to the environment.

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

Harmful to aquatic life.

Other hazards which do not result in classification

Dust can form an explosive mixture in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

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.

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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.
Most important symptoms and effects, both acute and delayed	:	May cause irritation of respiratory tract. Causes skin and eye irritation.
Notes to physician	:	Treat symptomatically

5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray Carbon dioxide (CO ₂) Foam Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire-fighting	:	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 application area. Dispose of rinse water in accordance with local and national

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Avoidance of contact	: regulations. 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

Contains no substances with occupational exposure limit values.

Engineering measures	: Local exhaust Use explosion-proof equipment.
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Personal protective equipment

Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type	: Particulates type
Eye/face protection	: Tightly fitting safety goggles Face-shield
Skin and body protection	: Protective suit
Hand protection	
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
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.

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

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Boiling point/boiling range	: 170 °C
Flash point	: Not applicable
Vapour pressure	: 0.00018 hPa (20 °C)
Density	: 1.2 g/cm ³ (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
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

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

Causes skin irritation.

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Product:

Remarks : May cause skin irritation in susceptible persons.

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

Causes eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:

hexa-2,4-dienoic acid:

Species	:	Rabbit
Result	:	Eye irritation
Method	:	EEC 84/449, B.5

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

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

Not classified based on available information.

Components:

hexa-2,4-dienoic acid:

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

Carcinogenicity

Not classified based on available information.

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Components:

hexa-2,4-dienoic acid:

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

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks	:	No data available
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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 aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 70 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 24.1 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10 (Daphnia magna (Water flea)): 50 mg/l Method: OECD Test Guideline 211
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h Test Type: activated sludge Method: OECD Test Guideline 209

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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 assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.

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

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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

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 guid-

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