

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

Revision Date Mar.05.2019
Issuing date Mar.05.2019
NAGH/EN

1. Product and company identification

Trade Name

Nutrinova® Sorbic acid

Manufacturer, importer, supplier
Celanese Ltd.

222 W. Las Colinas Blvd., Suite 900N
Irving, TX 75039
United States
Phone: 972 443 4000
Internet: www.celanese.com

Transportation emergency phone numbers:

For Chemical Emergency: Spill Leak Fire Exposure or Accident
Call CHEMTREC Day or Night
DOMESTIC NORTH AMERICA: 800-424-9300
INTERNATIONAL, CALL +1 703-527-3887 (collect calls accepted)

Identified uses

Preservative in the food industry, feed additive, pharmaceutical

2. Hazard Identification

Label elements



Signal Word

Warning

Hazard Statements

Causes skin irritation
Causes eye irritation
May cause respiratory irritation

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Precautionary statements

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 Use only outdoors or in a well-ventilated area.
 Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves
 IF ON SKIN: Wash with plenty of water.
 Take off contaminated clothing and wash before reuse
 If skin irritation occurs: Get medical advice/attention.
 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.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER or doctor if you feel unwell.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed
 Dispose of contents/ container to an approved waste disposal plant.

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 (CO2), 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 (CO₂)

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.

Authority Notification

Within the United States, call the National Response Center (800-424-8802) and appropriate state and local authorities if the quantity released over 24 hours is equal to or greater than the reportable quantity listed below:

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.

Protection - fire and explosion:

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

Technical measures/Storage conditions

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

Material storage

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

Incompatible products

No special restrictions on storage with other products

8. Exposure controls / personal protection

OSHA Exposure Limits

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No exposure limits established.

ACGIH Exposure Limits

No exposure limits established.

Mexico National 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.

Protective equipment

A safety shower and eyebath should be readily available.

General advice

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

9. Physical and chemical properties

Appearance

Form	powder
Color	white
Odor	odorless
Flash point	Not applicable
Ignition temperature	> 120°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 ⁻⁴ hPa @ 20°C
Water solubility	1.56 g/l @ 20°C
Solubility in other solvents	Not determined

10. Stability and reactivity

Reactivity

Stable under normal conditions of handling, use and transportation.

Safety Data Sheet



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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.

Possibility of hazardous reactions

None anticipated.

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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
 Species rabbit No skin irritation
 Method EEC 84/449, B.4
Skin Sensitization
 Species guinea pig nonsensitizer
 Method Similar to: EEC 96/54, B.6
Serious eye damage/eye irritation
 Species rabbit eye irritant
 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

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12. Ecological Information

	Method	OECD 202
Toxicity to aquatic plants		EC50: 24.1 mg/l (72h)
	Species:	Scenedesmus subspicatus
Toxicity to bacteria		EC50 (3h): > 100 mg/l
	Method	OECD 209
Biodegradation		Readily biodegradable
	Method	OECD 301 B
Other potential hazards		The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

13. Disposal considerations

Disposal considerations

Dispose of spilled material in accordance with state and local regulations for waste that is non-hazardous by Federal definition. Note that this information applies to the material as manufactured; processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

14. Transport information

US Department of Transportation	Not regulated
TDG	Not regulated
Mexico Transport Information	Not regulated
ICAO/IATA	Not restricted
IMDG	Not regulated

15. Regulatory Information

US State Regulations

Chemicals associated with the product which are subject to the state right-to-know regulations are listed along with the applicable state(s):
none

U.S. FEDERAL REGULATIONS

TSCA Inventory:

We certify that all components are either on the TSCA inventory or qualify for an exemption.

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Sorbic acid is regulated by the Food, Drug and Cosmetics Act, GRAS status (21CFR 182.3089)

Environmental Regulations:

SARA 311:

Acute health:	Yes
Chronic health:	No
Fire:	No
Sudden release of pressure:	No
Reactive:	No

INTERNATIONAL REGULATIONS

International Inventories

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

16. Other information

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

Prepared By
Product Stewardship Department
Celanese

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..

Other Information:

Observe national and local legal requirements
Changes against the previous version are marked by ***

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Abbreviation and Acronym:

ADR = Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS = Chemical Abstracts Service (division of the American Chemical Society)

CLP = Classification, Labelling and Packaging

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

ICAO = International Civil Aviation Organization

IMDG = International Maritime Code for Dangerous Goods

LC50 = Lethal Concentration

LD50 = Lethal Dose

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

STOT SE = Specific Target Organ Toxicity Single Exposure

vPvB = very Persistent and very Bioaccumulative