

**Product name** Nutrinova® Sorbic acid dustfree  
**MSDS number** 81004B  
**Revision Number** 3\*\*\*.02

**Revision Date**  
**Issuing date**

NAGH/EN  
Sep.01.2015\*\*\*  
Aug.18.2016\*\*\*

## 1. Product and company identification

**Trade Name**

### Nutrinova® Sorbic acid dustfree

**Manufacturer, importer, supplier**  
**Celanese Production Germany GmbH & Co. KG**  
Am Unisys-Park 1  
65843 Sulzbach (Taunus)  
Germany

**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**

Food additive, Cosmetics, Pharmaceutical\*\*\*

## 2. Hazard Identification

**GHS Classification**

**Hazards**

Skin corrosion/irritation  
Serious eye damage/eye irritation  
Specific target organ systemic toxicity (single exposure)

**Category**

Category 2  
Category 2B  
Category 3 Respiratory

**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 (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.

### 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

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## 8. Exposure controls / personal protection

### OSHA Exposure Limits

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

**Combustible material.** 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<sup>-4</sup> hPa @ 20°C\*\*\*

**Vapor density** Not determined\*\*\*

**Evaporation Rate** Not determined\*\*\*

**Water solubility** 1.56 g/l @ 20°C\*\*\*

**Solubility in other solvents** not determined

**Partition coefficient** 1.32 @ 20°C (pH: 2.5)

**(n-octanol/water)**

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## 10. Stability and reactivity

### Chemical stability

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.\*\*\*

### Possibility of hazardous reactions

None anticipated.

## 11. Toxicological information

### Potential health effects

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

### Immediate effects

<b>Skin</b>	Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.
<b>Inhalation</b>	May cause respiratory tract irritation.

### Hexa-2,4-dienoic acid

<b>Acute oral toxicity</b>	LD50: > 10000 mg/kg, rat
<b>Acute dermal toxicity</b>	LD50: > 2000 mg/kg, rat
<b>Skin corrosion/irritation</b>	No skin irritation
Species	rabbit
Method	EEC 84/449, B.4
<b>Skin Sensitization</b>	nonsensitizer
Species	guinea pig
Method	Similar to: EEC 96/54, B.6
<b>Serious eye damage/eye irritation</b>	irritant
Species	rabbit eye
Method	EEC 84/449, B.5
<b>Carcinogenic effects</b>	No evidence of carcinogenicity

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Species  
**in vitro Mutagenicity**  
**in vivo Mutagenicity**

**Repeated exposure**

rats  
 - negative  
 Mammalian Erythrocyte Micronucleus Test in mice: negative  
 - Method: OECD 474  
 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**

Species:

Method

**Acute daphnia toxicity**

Species:

Method

**Toxicity to aquatic plants**

Species:

**Toxicity to bacteria**

Method

**Biodegradation**

Method

LC50: 1250 mg/l (96h)  
 (Reference substance: Potassium sorbate)  
 Brachidanio rerio (zebra fish)  
 OECD 203  
 EC50: 353 mg/l (48h)  
 Daphnia magna  
 OECD 202  
 EC50: 24.1 mg/l (72h)  
 Scenedesmus subspicatus  
 EC50 (3h): > 100 mg/l  
 OECD 209  
 Readily biodegradable  
 OECD 301 B

## 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

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## 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.

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

#### Environmental Regulations:

#### SARA 311:

<b>Acute health:</b>	Yes
<b>Chronic health:</b>	No
<b>Fire:</b>	No
<b>Sudden release of pressure:</b>	No
<b>Reactive:</b>	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

#### Prepared By

Product Stewardship Department  
Celanese

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## 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 \*\*\*

## 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

LOAEC = Low Observed Adverse Effect Concentration

LOAEL = Low Observed Adverse Effect Level

LOEL = Low Observed Effect Level

MEST = Mouse Ear Swelling Test

NOAEC = No Observed Adverse Effect Concentration

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RCR = Risk Characterization Ratio

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

R-Phrases = Risk Phrases

S-Phrases = Safety Phrases

STOT RE = Specific Target Organ Toxicity Repeated Exposure

STOT SE = Specific Target Organ Toxicity Single Exposure

STP = Sewage Treatment Plant

vPvB = very Persistent and very Bioaccumulative