

**Product Name** Nutrinova® Potassium Sorbate Powder  
**MSDS number** 81044  
**Revision Number** 1.01

**Revision Date** NAGH/EN  
**Issuing date** May.24.2018  
Apr.11.2019

## 1. Product and company identification

**Trade Name**

### **Nutrinova® Potassium Sorbate Powder**

**Manufacturer, importer, supplier**  
**Celanese Sales Germany GmbH**  
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 industry, Pharmaceutical

## 2. Hazard Identification

**According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200:**

### **GHS Classification**

<b>Hazards</b>	<b>Category</b>
Serious eye damage/eye irritation	Category 2B

**Label elements**  
No Pictogram Required.

<b>Signal Word</b>	Warning
<b>Hazard Statements</b>	Causes eye irritation

### **Precautionary statements**

Wash face, hands and any exposed skin thoroughly after handling.  
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.

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**Hazards not otherwise classified (HNOC)**  
 May form combustible dust concentrations in air.

**3. Composition/information on ingredients**

Components	CAS-No	Percent %
Potassium (E,E)-hexa-2,4-dienoate	24634-61-5	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.

**Ingestion**

Do NOT induce vomiting. Call a physician immediately.

**5. Fire-fighting measures**

**NFPA:**      **Health:** 2                                      **Flammability:** 0                                      **Instability:** 0

**Suitable extinguishing media**

Carbon dioxide (CO2), Water spray, Foam, Dry chemical

**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

**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit.

**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.

**Environmental precautions**

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

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### 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:

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

### Technical measures/Storage conditions

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

### Material storage

Keep in a dry, cool place. Protect against light.

### Incompatible products

Keep away from:., Oxidizing agents

## 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.

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**General advice**

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

**9. Physical and chemical properties**

**Appearance**

<b>Form</b>	solid
<b>Color</b>	white
<b>Odor</b>	odorless
<b>Flash point</b>	Not applicable
<b>Autoignition Temperature</b>	178 °C
<b>Method</b>	A.16 (DI 92/69/EEC)

<b>Boiling point/range</b>	not applicable
<b>Method</b>	OECD 103
<b>Density</b>	1.36 g/ml @ 20°C
<b>Method</b>	OECD 109

<b>pH</b>	7 @ 20°C @ 543 g/l
<b>Vapor pressure</b>	1.0 x 10 <sup>-7</sup> hPa @ 20°C
	1.0 x 10 <sup>-7</sup> hPa @ 50°C
<b>Water solubility</b>	1.95 g/l @ 20°C @ pH 4.0
<b>Solubility in other solvents</b>	30.5 g/l @ 20°C, Methanol, p-Xylene
<b>Partition coefficient (n-octanol/water)</b>	-1.72 @ 20°C (pH: 6.5)

**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.

**Possibility of hazardous reactions**

No hazards to be especially mentioned.

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## 11. Toxicological information

### Potential health effects

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

### Immediate effects

**Skin** Essentially non-irritating.  
**Eyes** Causes eye irritation.  
**Inhalation** No adverse health effects have been observed.

### Potassium (E,E)-hexa-2,4-dienoate

**Acute oral toxicity** LD50: > 10000 mg/kg, rat  
(Reference substance: Sorbic acid)

**Acute dermal toxicity** LD50: > 2000 mg/kg, rat  
(Reference substance: Sorbic acid)

**Acute inhalation toxicity** LC50 (4h): > 5.15 mg/l

**Method** OECD 403

**Skin corrosion/irritation** Not irritating

**Species** rabbit

**Method** OECD 404

**Skin Sensitization** nonsensitizer  
(Reference substance: Sorbic acid)

**Species** guinea pig

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

**Serious eye damage/eye irritation** irritant

**Species** rabbit eye

**Method** OECD 405

**Carcinogenic effects** No evidence of carcinogenicity (Reference substance: Sorbic acid)

**Species** mice

**Study** 80-weeks long term study  
NOAEL: 1400 mg/kg/d

**in vitro Mutagenicity** Ames Test: negative - with and without metabolic activation -  
Method: Similar to EC B.13/B.14 Chromosome aberration test: weak positive - without metabolic activation - Method: similar to EC B.10 (2000/32/EEC)

**in vivo Mutagenicity** Mammalian Erythrocyte Micronucleus Test in mice: negative -  
Method: OECD 474 (Reference substance: Sorbic acid)

**Reproductive toxicity** No toxicity to reproduction (Reference substance: Sorbic acid)

**Routes of exposure** oral gavage

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Species	rat
<b>Developmental effects</b>	NOAEL (P-generation): 3000 mg/kg/day; NOAEL (reproductive): 3000 mg/kg/day; NOAEL (offspring): 1000 mg/kg/day
Routes of exposure	No developmental or reproductive effects
Species	oral gavage
<b>Repeated exposure</b>	rat
Routes of exposure	NOAEL (parental): 340 mg/kg/day; NOAEL (embryonic/teratogenic effects): 340 mg/kg/day
Species	No consistent differences between treated and control groups, although there were some statistically significant differences in the high dose males and/or females (Reference substance: Sorbic acid)
Type of study	oral gavage
	rat
	NOAEL: 750 mg/kg bw/day
	2 years

## 12. Ecological Information

### Potassium (E,E)-hexa-2,4-dienoate

<b>Acute fish toxicity</b>	LC50: > 1000 mg/l (96h)
Species:	Oncorhynchus mykiss (rainbow trout)
Method	OECD 203
<b>Acute daphnia toxicity</b>	EC50: 982 mg/l (48h)
Species:	Daphnia magna
Method	OECD 202
<b>Toxicity to bacteria</b>	EC50 (3h): > 100 mg/l
Species:	(Reference substance: Sorbic acid)
Method	in activated sludge
<b>Biodegradation</b>	OECD 209
Method	Readily biodegradable
<b>Other potential hazards</b>	(Reference substance: Sorbic acid)
	OECD 301 D
	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.

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## 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.

Potassium sorbate is regulated by the Food, Drug and Cosmetics Act, GRAS status (21CFR 182.3640)

#### **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

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## 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

NFPA: Health: 2 Flammability: 0 Instability: 0  
 HMIS: Health: 2 Flammability: 0 Physical Hazard: 0

**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 \*\*\*

### 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)  
 vPvB = very Persistent and very Bioaccumulative

# Safety Data Sheet



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