

Product Name	Nutrinova® Potassium Sorbate Granules		NAGH/EN
MSDS number	81043	Revision Date	Mar.05.2019
Revision Number	1.02	Issuing date	Mar.05.2019

1. Product and company identification

Trade Name

Nutrinova® Potassium Sorbate Granules

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

Preservative in the food industry, feed additive, pharmaceutical

2. Hazard Identification

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

GHS Classification

Hazards

Serious eye damage/eye irritation

Category

Category 2B

Label elements

No Pictogram Required.

Signal Word

Warning

Hazard Statements

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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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.

Methods for cleaning up

Use mechanical handling equipment. Dispose of in accordance with local regulations.

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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.

General advice

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

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9. Physical and chemical properties

Appearance

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

Boiling point/range

not applicable

Method OECD 103

Density 1.36 g/ml @ 20°C

Method OECD 109

pH

7 @ 20°C @ 543 g/l

Vapor pressure 1.0 x 10⁻⁷ hPa @ 20°C

1.0 x 10⁻⁷ hPa @ 50°C

Water solubility 1.95 g/l @ 20°C @ pH 4.0

Solubility in other solvents 30.5 g/l @ 20°C, Methanol, p-Xylene

Partition coefficient -1.72 @ 20°C (pH: 6.5)

(n-octanol/water)

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
Developmental effects	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
Repeated exposure	rat
	NOAEL (parental): 340 mg/kg/day; NOAEL (embryonic/teratogenic effects): 340 mg/kg/day
	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)
Routes of exposure	oral gavage
Species	rat
	NOAEL: 750 mg/kg bw/day
Type of study	2 years

12. Ecological Information

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

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

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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:

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