

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Potassium Sorbate NXT Granules

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/02/24	000000033696	Date of first issue: 2022/02/24

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Nutrinova® Potassium Sorbate NXT Granules

Product code : 000000000021023514

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 : Cosmetics, personal care products
Industrial use

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: solid
Colour	: white
Odour	: odourless

Causes eye irritation.

GHS Classification

Serious eye damage/eye irritation : Category 2B

GHS label elements

Hazard pictograms : None
Signal word : Warning

Hazard statements : H320 Causes eye irritation.

Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
Response:
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Potassium Sorbate NXT Granules

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/02/24	000000033696	Date of first issue: 2022/02/24

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 eye irritation.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Components

Chemical name	CAS-No.	Concentration (% w/w)
potassium (E,E)-hexa-2,4-dienoate	24634-61-5	100

4. FIRST AID MEASURES

General advice	: Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	: Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	: Causes eye irritation.
Notes to physician	: Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO₂)
Water spray

SAFETY DATA SHEET

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Version	Revision Date:	SDS Number:	Date of last issue: -
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Unsuitable extinguishing media	:	Foam Dry chemical High volume water jet
Hazardous combustion products	:	Carbon oxides
Specific extinguishing methods	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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. 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 if safe to do so. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal. Use mechanical handling equipment.

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. Take measures to prevent the build up of electrostatic charge. Keep away from heat and sources of ignition.
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 regulations.
Avoidance of contact	:	Oxidizing agents

Storage

Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	:	Keep away from oxidizing agents.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Potassium Sorbate NXT Granules

Version	Revision Date:	SDS Number:	Date of last issue: -
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Further information on storage stability : 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

Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required. Half mask with a particle filter P2 (EN 143)
Eye/face protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Dust impervious protective suit Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hand protection	
Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: solid
Colour	: white
Odour	: odourless
pH	: 7 (20 °C) Concentration: 543 g/l
Melting point/range	: 250 °C Method: OECD Test Guideline 102
Boiling point/boiling range	: Not applicable
Flash point	: Not applicable
Vapour pressure	: 0.0000001 hPa (20 °C) Method: OECD Test Guideline 104 0.0000001 hPa (50 °C) Method: OECD Test Guideline 104
Density	: 1.36 g/cm ³ (20 °C) Method: OECD Test Guideline 109

SAFETY DATA SHEET

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Version	Revision Date:	SDS Number:	Date of last issue: -
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Solubility(ies)	
Water solubility	: 1.95 g/l (20 °C) pH: 4.0 Method: OECD Test Guideline 105
Solubility in other solvents	: 30.5 g/l (20 °C) Solvent: Methanol Method: OECD Test Guideline 105
	: 30.5 g/l (20 °C) Solvent: xylene Method: OECD Test Guideline 105
Partition coefficient: n-octanol/water	: log Pow: -1.72 (20 °C) pH: 6.5 Method: OECD Test Guideline 107
Auto-ignition temperature	: 178 °C
Oxidizing properties	: not applicable based on consideration of the structure
Surface tension	: 72 mN/m, 1,000 mg/l, OECD Test Guideline 115
Particle Size Distribution	: D10 = 5 µm D90 = 1,140 µm Measurement method: OECD Test Guideline 110

10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Do not expose to temperatures above: 210 °C
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:

potassium (E,E)-hexa-2,4-dienoate:

Acute oral toxicity	: LD50 (Rat): > 10,000 mg/kg Test substance: Sorbic acid
Acute inhalation toxicity	: LC50 (Rat): > 5.15 mg/l Exposure time: 4 h Test atmosphere: dust/mist

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Potassium Sorbate NXT Granules

Version	Revision Date:	SDS Number:	Date of last issue: -
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Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
Test substance: Sorbic acid

Skin corrosion/irritation

Not classified based on available information.

Components:

potassium (E,E)-hexa-2,4-dienoate:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

Serious eye damage/eye irritation

Causes eye irritation.

Product:

Remarks : Moderate eye irritation

Components:

potassium (E,E)-hexa-2,4-dienoate:

Species	: Rabbit
Result	: Eye irritation
Method	: OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

potassium (E,E)-hexa-2,4-dienoate:

Species	: Guinea pig
Method	: Similar to EEC 96/54, B.6
Result	: Does not cause skin sensitisation.
Test substance	: Sorbic acid

Germ cell mutagenicity

Not classified based on available information.

Components:

potassium (E,E)-hexa-2,4-dienoate:

Genotoxicity in vitro	: Test Type: Ames test
	Metabolic activation: with and without metabolic activation

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Potassium Sorbate NXT Granules

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/02/24	000000033696	Date of first issue: 2022/02/24

Method: Mutagenicity (Escherichia coli - reverse mutation assay)

Result: negative

Test Type: Chromosome aberration test in vitro

Metabolic activation: without metabolic activation

Method: Mutagenicity (in vitro mammalian cytogenetic test)

Result: Positive results were obtained in some in vitro tests.

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

Carcinogenicity

Not classified based on available information.

Components:

potassium (E,E)-hexa-2,4-dienoate:

Species : Mouse
Application Route : Oral
Exposure time : 80 weeks
: 1,400 mg/kg bw/day
Result : No evidence of carcinogenicity in animal studies.
Test substance : Sorbic acid

Reproductive toxicity

Not classified based on available information.

Components:

potassium (E,E)-hexa-2,4-dienoate:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 3,000 mg/kg body weight
General Toxicity F1: NOAEL: 1,000 mg/kg body weight
Method: OECD Test Guideline 416
Result: No toxicity to reproduction
Remarks: Testsubstance: Sorbic acid

Effects on foetal development : Species: Rat
Application Route: Oral
Teratogenicity: NOAEL: 340 mg/kg bw/day
Embryo-foetal toxicity: NOAEL: 340 mg/kg bw/day
Method: Regulation (EC) No. 440/2008, Annex, B.31
Result: No developmental or reproductive effects

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

SAFETY DATA SHEET

according to GB/T 16483 and GB/T 17519



Nutrinova® Potassium Sorbate NXT Granules

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	2022/02/24	000000033696	Date of first issue: 2022/02/24

Repeated dose toxicity

Components:

potassium (E,E)-hexa-2,4-dienoate:

Species	:	Rat
NOAEL	:	750 mg/kg
Application Route	:	Oral
Test substance	:	Sorbic acid
Remarks	:	No consistent differences between treated and control groups, although there were some statistically significant differences in the high dose males and/or females

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks	:	No data available
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

potassium (E,E)-hexa-2,4-dienoate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 982 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h Test Type: activated sludge Test substance: Sorbic acid Method: OECD Test Guideline 209

Persistence and degradability

Components:

potassium (E,E)-hexa-2,4-dienoate:

Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301D Test substance: Sorbic acid
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Bioaccumulative potential

No data available

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Nutrinova® Potassium Sorbate NXT Granules

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Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : No data available

Components:

potassium (E,E)-hexa-2,4-dienoate:

Results of PBT and vPvB assessment : The substance does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

Additional ecological information : No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with local regulations.
Contaminated packaging	: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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

Special precautions for user

Not applicable

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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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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