according to Regulation (EC) No. 1907/2006



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: Nutrin	nova® Potassium Sorbate Granules
Product code	: 00000	0000020008709
Index-No.	: 019-0	03-00-3
EC-No.	: 246-3	76-1

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-	:	Food/ feedstuff additives, Pharmaceutical
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

Company	:	Nutrinova Sales Germany GmbH Am Unisyspark 1 65843 Sulzbach (Taunus), Germany
Telephone	:	'+1 972-443-4000
E-mail address of person responsible for the SDS	:	HazCom@nutrinova.com

1.4 Emergency telephone number

CHEMTREC: +1 703 527 3887 (Collect calls accepted)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Eye irritation, Category 2

H319: Causes serious eye irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms

Signal word



5

Hazard statements

H319 Causes serious eye irritation.

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Preca	utionary statements		thoroughly after handling. protection/ face protection.
		Response: P305 + P351 + P3 ter for several min easy to do. Contin	38 IF IN EYES: Rinse cautiously with wa- utes. Remove contact lenses, if present and

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Index-No.	:	019-003-00-3
EC-No.	:	246-376-1

Components

Chemical name	CAS-No.	Concentration (% w/w)
	EC-No.	
potassium (E,E)-hexa-2,4-	24634-61-5	>= 90 - <= 100
dienoate	246-376-1	

SECTION 4: First aid measures

4.1 Description of 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.

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			Never give anyth	or alcoholic beverages. ning by mouth to an unconscious person. sist, call a physician.
4.2 Most i	mportant symptoms a	nd e	ffects, both acu	te and delayed
Risks		:	Causes serious	eye irritation.
4.3 Indica	tion of any immediate	meo	lical attention ar	nd special treatment needed
Treat	ment	:	Treat symptoma	tically.
SECTION	N 5: Firefighting meas	sur	es	
5.1 Exting	juishing media			
Suita	ble extinguishing media	:	Carbon dioxide Water spray Foam Dry chemical	(CO2)
Unsuitable extinguishing : High volume water jet media				ter jet
5.2 Specia	al hazards arising from	the	substance or m	lixture
Haza ucts	rdous combustion prod-	:	Carbon oxides	
5.3 Advic	e for firefighters			
	ial protective equipment efighters	:	Wear self-conta essary.	ined breathing apparatus for firefighting if nec
Furth	er information	:	Use extinguishir	dure for chemical fires. Ing measures that are appropriate to local cir- I the surrounding environment.

SECTION 6: Accidental release measures

ersonal precautions

6.2 Environmental precautions

Environmental precautions		Prevent further leakage or spillage if safe to do so.
		Do not flush into surface water or sanitary sewer system.

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6.3	6.3 Methods and material for containment and cleaning up Methods for cleaning up : Keep in suitable, closed containers for disposal. Use mechanical handling equipment.							
	6.4 Reference to other sections See sections: 7, 8, 11, 12 and 13.							
SEC	CTION	7: Handling and sto	orag	je				
7.1	Precaut	ions for safe handling	g					
	Advice	on safe handling	:	Do not breathe va Avoid contact with For personal prote Smoking, eating a plication area.				
		on protection against explosion	:	at places where d	ion. Provide appropriate exhaust ventilation ust is formed. Take measures to prevent the static charge. Keep away from heat and n.			
		e measures rature class	:		ot eat or drink. When using do not smoke. re breaks and at the end of workday.			
7.0	0		· I					
7.2	Require	ons for safe storage, ements for storage and containers	:	Keep container tig place. Electrical in	ghtly closed in a dry and well-ventilated nstallations / working materials must comply gical safety standards.			
	Advice	on common storage	:	Keep away from o	oxidizing agents.			
	Further age sta	information on stor- bility	:	No decompositior	if stored and applied as directed.			
7.3	•	: end use(s) c use(s)	:	None known.				

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Local exhaust

Personal protective equipment

Eye/face protection : Eye wash bottle with pure water

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M G D P M Bi G D	d protection laterial reak through time slove thickness birective rotective index aterial reak through time love thickness irective rotective index	problems. Nitrile rubber 480 min 1.5 mm Equipment sho Class 6 butyl-rubber 480 min 0.3 mm	eafety goggles eld and protective suit for abnormal processing ould conform to EN 374
Skin	emarks and body protection iratory protection	 with the product Dust imperviou Choose body pration of the d No personal required. 	for a specific workplace should be discussed cers of the protective gloves. us protective suit protection according to the amount and concen- angerous substance at the work place. espiratory protective equipment normally re- a particle filter P2 (EN 143)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour pH	:	solid white odourless 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/cm³ (20 °C) Method: OECD Test Guideline 109
Solubility(ies) Water solubility	:	1.95 g/l (20 °C) pH: 4.0

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			Method: OECD 1	est Guideline 105
S	olubility in other solvents	:	30.5 g/l (20 °C) Solvent: Methand Method: OECD 1	ol Test Guideline 105
			30.5 g/l (20 °C) Solvent: xylene Method: OECD 1	est Guideline 105
	tion coefficient: n- nol/water	:	log Pow: -1.72 (2 pH: 6.5 Method: OECD 1	20 °C) ⁻ est Guideline 107
Auto	-ignition temperature	:	178 °C	
Oxid	izing properties	:	not applicable ba	sed on consideration of the structure
9.2 Other	information			
Surfa	ace tension	:	72 mN/m, 1,000	mg/l, OECD Test Guideline 115
Parti	cle Size Distribution	:	D10 = 5 μm D90 = 1,140 μm Measurement me	ethod: OECD Test Guideline 110

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if	f stored and applied as directed.
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10.4 Conditions to avoid

Conditions to avoid : Do not expose to temperatures above: 210 °C

10.5 Incompatible materials

Materials to avoid	: Oxidizing agents
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

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 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.

Product:

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 serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Components:

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

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

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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 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
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: Test Type: Two-generation study Species: Rat

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		General Toxicity Method: OECD Result: No toxic	te: Oral / - Parent: NOAEL: 3,000 mg/kg body weight / F1: NOAEL: 1,000 mg/kg body weight Test Guideline 416 ity to reproduction ubstance: Sorbic acid
Effec ment	ts on foetal develop-	Embryo-foetal to Method: Regula	te: Oral NOAEL: 340 mg/kg bw/day oxicity: NOAEL: 340 mg/kg bw/day tion (EC) No. 440/2008, Annex, B.31 lopmental or reproductive effects
STO	T - single exposure		
Not o	classified based on avail	able information.	
	T - repeated exposure classified based on avail	able information.	
Repe	eated dose toxicity		
Com	ponents:		
pota	ssium (E,E)-hexa-2,4-d	ienoate:	
Spec NOA Appli	ties EL cation Route substance	: Rat : 750 mg/kg : Oral : Sorbic acid : No consistent di although there v	ifferences between treated and control groups, vere some statistically significant differences in ales and/or females
Aspi	ration toxicity		
-	classified based on avail	able information.	
Furtl	ner information		
Prod	luct:		
Rem	arks	: No data availab	le
SECTIO	N 12: Ecological info	rmation	
12.1 Toxi	-		
	ponents:		

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

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				Method: OECD T	est Guideline 202
	Toxicit	y to microorganisms	:	EC50 : > 100 mg. Exposure time: 3 Test Type: activa Test substance: \$ Method: OECD T	h ted sludge
12.2	Persis	tence and degradabi	lity		
	Comp	onents:			
	-	sium (E,E)-hexa-2,4-d	ieno	oate:	
	Biodeg	radability	:		est Guideline 301D
12.3		cumulative potential a available			
12.4		ty in soil a available			
12.5	Result	s of PBT and vPvB a	sse	ssment	
	Produ				
	Assess	sment	:	to be either persis	hixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
	Comp	onents:			
	potass	sium (E,E)-hexa-2,4-d	iend	pate:	
	Assess	sment	:	The substance do cording to REAC	bes not meet the criteria for PBT / vPvB ac- H, Annex XIII
12.6	Other	adverse effects			
	<u>Produ</u>	<u>ct:</u>			
	Endocı tial	ine disrupting poten-	:	ered to have ende REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at bigher
	Additio mation	nal ecological infor-	:	No data available	
	Comp	onents:			
	potass	sium (E,E)-hexa-2,4-d	ieno	oate:	
	Additio mation	nal ecological infor-	:	No data available	

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemi- cal 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.

SECTION 14: Transport information

14.1 UN number

ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards		

Not regulated as a dangerous good

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dustrial

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14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Relevant EU provisions transposed through retained EU law

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-	: Not applicable
ain) Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable
Volatile organic compounds : Directive 2010/75/EU	of 24 November 2010 on inc

Not applicable

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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;

emissions (integrated pollution prevention and control)

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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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; 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

Further information

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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