

SAFETY DATA SHEET
Potassium Sorbate

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Issued: 21/09/2026
Revision No: 4

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product Name: POTASSIUM (E,E) HEXA2,4 DIENOATE
Index No.: 019-003-00-3
EC Number: 246-376-1
CAS No.: 24634-61-5
Synonyms: 2,4 HEXADIENOIC ACID, POTASSIUM SALT, POT SORBATE EP, NUTRINOVA POTASSIUM SORBATE, POT SORBATE PDR NT, POT SORBATE GRAN NAA JBN, NUTRINOVA POTASSIUM SORBATE BFX GRANULES, NUTRINOVA POTASSIUM SORBATE NXT GRANULES, POT SORBATE GRAN NT, POT SORBATE BFX GRAN, POT SORBATE PREM GRAN NT, POTASSIUM SORBATE E202, POT SORBATE E202 GRAN NT, POT SORBATE E202, POT SORBATE E202 GRAN CLE, POT SORBATE E202 JBN, POT SORBATE E202 PREM GRAN NT, POT SORBATE E202 PDR NT, POT SORBATE E202 PEARL NT, POT SORBATE E202 PEARL DN, POT SORBATE FG, TEQGUARD PS***
Pure substance/mixture: Substance
Molecular weight: 150.22

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

Recommended use: Food/Feed additive
Cosmetics
Chemical intermediate
Personal care
Industrial application
Processing aid.
Preservative

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Serious eye damage/eye irritation	Category 2 – (H319)
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Label elements:



Signal word:

Warning

Hazard statements:

H319 - Causes serious eye irritation

Precautionary statements:

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

Other hazards:

No information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical name	Weight-%	EC No. (EU Index No.)	UK REACH reg No.	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
POTASSIUM (E,E) HEXA2,4 DIENOATE 24634-61-5	90 – 100%	246-376-1 (019-003-00-3)	-	Eye Irrit. 2 (H319)	-	-	-

Full text of H- and EUH-phrases: See section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

4. FIRST AID MEASURES

Description of first aid measures:

General advice:

Remove contaminated clothing and shoes.

Inhalation:

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Skin contact:

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.

Ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

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Most important symptoms and effects, both acute and delayed

Eyes: Causes serious eye irritation.

Indication of any immediate medical attention and special treatment needed:

Note to doctors: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable Extinguishing Media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Large Fire: CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media: Do not scatter spilled material with high pressure water streams.

Special hazards arising from the substance or mixture:

Specific hazards arising from the chemical: When heated and in case of fire, toxic vapours/gases may be formed.

Hazardous combustion products: Carbon oxides. Metal oxides.

Advice for firefighters:

Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid generation of dust. Wash thoroughly after handling.

Other information: Refer to protective measures listed in Sections 7 and 8.

For emergency responders: Use personal protection recommended in Section 8.

Environmental precautions: See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up:

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Avoid generation of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections: See section 8 for more information. See section 13 for more information.

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7. HANDLING AND STORAGE

Precautions for safe handling:

Advice on safe handling: Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with eyes, skin and clothing. Do not breathe dust. Avoid spilling.

General hygiene considerations: Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities:

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Store at room temperature.

Specific end use(s):

Specific use(s): See section 1 for more information.

Risk Management Methods (RMM): The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

Biological occupational exposure limits: This product, as supplied, does not contain any hazardous materials with biological limits established by the region-specific regulatory bodies.

Derived No Effect Level (DNEL) – Workers:

Chemical name	Oral	Dermal	Inhalation
POTASSIUM (E,E) HEXA2,4 DIENOATE 24634-61-5	0.17 mg/cm ² [5] [6]	40 mg/kg [4] [6]	17.63 mg/m ³ [4] [6]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

Derived No Effect Level (DNEL) - General Public:

Chemical name	Oral	Dermal	Inhalation
POTASSIUM (E,E) HEXA2,4 DIENOATE 24634-61-5	2 mg/kg [4] [6]	20 mg/kg [4] [6]	26.08 mg/m ³ [4] [6]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

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Predicted No Effect Concentration (PNEC):

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
POTASSIUM (E,E) HEXA2,4 DIENOATE 24634-61-5	1 mg/l		0.1 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
POTASSIUM (E,E) HEXA2,4 DIENOATE 24634-61-5	3.6 mg/kg	0.36 mg/kg		1.67 mg/kg	10 mg/l

Exposure controls:

Engineering controls: No information available.

Personal protective equipment:

Eye/face protection: Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.***

Gloves			
Duration of contact	PPE – Glove material	Glove thickness	Break through time
Long term (repeated)	Rubber (natural, latex) Chloroprene rubber (CR) Polyvinyl chloride (PVC) Butyl rubber	0.5mm	8 hours
Long term (repeated)	Nitrile rubber	0.35mm	8 hours
Long term (repeated)	Fluorinated rubber	0.4mm	8 hours

Skin and body protection: Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection: Use appropriate respiratory protection.
Particulate filter, type P2. or. Dust filter P3 (for especially fine dust/powder).

General hygiene considerations: Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.
Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Solid

Appearance: Dusty powder granules crystalline

Colour: White

Odour: Odourless

Odour threshold: No information available

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Property	Values	Remarks • Method
Melting point / freezing point	>= 205°C	
Initial boiling point and boiling range	>205°C	@ 1013.3 hPa.
Flammability		No information available
Flammability Limit in Air		Not determined
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	178°C	
Autoignition temperature	> 150°C	
Decomposition temperature	> 270°C	
pH	7.0 - 11.0	@ 20°C. 1400 g/L
pH (as aqueous solution)		No information available
Kinematic viscosity		Not determined
Dynamic viscosity		Not determined
Water solubility	Soluble in water	
Solubility(ies)		No information available
Partition coefficient	log Pow: -1.72	OECD 117
Vapour pressure	1.0 x 10 ⁻⁷ hPa	@ 20°C. OECD 104
	1.0 x 10 ⁻⁷ hPa	@ 50°C. OECD 104
Relative density	1.36	20°C. OECD 109
Bulk density		Not determined
Liquid Density	No information available	No information available
Relative vapour density		Not determined
Particle characteristics		No information available
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising	
Other information:		
Molecular weight	150.22	
Evaporation rate	Not determined	

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical stability: Stable under normal conditions.

Explosion data:

Sensitivity to mechanical impact: None.

Sensitivity to static discharge: None.

Possibility of hazardous reactions: None under normal processing.

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Conditions to avoid: Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials: Aluminium. Zinc. Tin.

Hazardous decomposition products: Carbon oxides. Metal oxides.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Information on likely routes of exposure:

Product Information:

Inhalation: Inhalation of dust in high concentration may cause irritation of respiratory system.

Eye contact: Causes serious eye irritation.

Skin contact: May cause slight skin irritation.

Ingestion: May cause discomfort if swallowed. Ingestion may cause irritation to mucous membranes.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms:

Acute toxicity:

Numerical measures of toxicity:

Component Information:

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
POTASSIUM (E,E) HEXA2,4 DIENOATE	> 3200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Skin corrosion/irritation: No information available.***

Serious eye damage/eye irritation: Causes serious eye irritation.

POTASSIUM (E,E) HEXA2,4 DIENOATE (24634-61-5):

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye irritation

Respiratory or skin sensitisation: No information available.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

Other adverse effects: No information available.

[cont...]

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12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity: Not considered to be harmful to aquatic life.

POTASSIUM (E,E) HEXA2,4 DIENOATE (24634-61-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Fish Brachydanio rerio	LC50	>500 mg/l	96 hours	
	Daphnia magna	EC50	982 mg/l	48 hours	
	Algae Desmodesmus Subspicatus	EC50	480 mg/l	72 hours	
Chronic toxicity	Daphnia magna	NOEC	50 mg/l		
Chronic toxicity	Algae Desmodesmus subspicatus	NOEC	105 mg/l		

Persistence and degradability: Not readily biodegradable.

POTASSIUM (E,E) HEXA2,4 DIENOATE (24634-61-5)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	Biodegradation 74.9 %	Rapidly biodegradable

Bioaccumulative potential:

Bioaccumulation: There is no data for this product.

Chemical name	Partition coefficient
POTASSIUM (E,E) HEXA2,4 DIENOATE	-1.72

Mobility in soil: Soluble in water.

Results of PBT and vPvB assessment:

PBT and vPvB assessment: The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
POTASSIUM (E,E) HEXA2,4 DIENOATE	The substance is not PBT / vPvB

Other adverse effects: No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste from residues/unused products: Dispose of in accordance with local regulations.

Dispose of waste in accordance with environmental legislation.

Contaminated packaging: Do not reuse empty containers.

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14. TRANSPORT INFORMATION

IATA:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

IMDG:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

Maritime transport in bulk according to IMO instruments: No information available

RID:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

ADR:

UN number or ID number: Not regulated
UN proper shipping name: Not regulated
Transport hazard class(es): Not regulated
Packing group: Not regulated
Environmental hazards: No
Special precautions for user:
Special Provisions: None

15. REGULATORY INFORMATION

Chemical safety assessment:

Chemical Safety Report: A Chemical Safety Assessment has been carried out for this substance.

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Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet:

Full text of H-Statements referred to under section 3: H319 - Causes serious eye irritation

Legend:

SVHC: Substances of Very High Concern for Authorisation

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.