

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.02.2019

Version number 11

Revision: 30.01.2019

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

- **1.1 Product identifier**
- **Trade name: Potassium sorbate Gran**
- **CAS number:**
24634-61-5
- **EC number:**
246-376-1
- **Index number:**
019-003-00-3
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- **Application of the substance/the mixture:** Additive for the cosmetic industry.
- **1.3 Details of the supplier of the safety data sheet:**
- **Address and telephone number of the supplier:**
Thor Specialties (UK) LTD.
Wincham Avenue
Wincham Northwich
Cheshire CW9 6GB
United Kingdom
Phone: (UK) +44 (0) 1606 818800
Fax: (UK) +44 (0) 1606 818801
- **Competent person responsible for the Material Safety Data Sheet:**
Regulatory Department: sds@thor.uk.com
- **1.4 Emergency telephone number:**
National Poisons Information Service (24 h service):
Phone: +44 (0) 844-892-0111 (UK only)
Transport Emergency phone number (24 h service):
Phone: +49 621 60-43333 - Fax: +49 621 60-92664

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 respectively UN GHS**



Eye Irrit. 2 H319 Causes serious eye irritation.

-
- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008 respectively UN GHS**
The substance is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**



- **Signal word** Warning
- **Hazard statements**
H319 Causes serious eye irritation.

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· Precautionary statements

- P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

· Supplemental information in terms of art. 25 CLP-Regulation: None

- 2.3 Other hazards**
- Other hazards have not been identified for this product.

SECTION 3: Composition/information on ingredients**· 3.1 substances**

- CAS No. Designation:**
-
- 24634-61-5 potassium sorbate
-
- Identification number(s):**
-
- EC number:**
- 246-376-1
-
- Index number:**
- 019-003-00-3
-
- Molecular weight:**
- 150.22 g/mol
-
- Empirical formula:**
- C
- ₆
- H
- ₇
- KO
- ₂

SECTION 4: First aid measures**· 4.1 Description of first aid measures**

- After inhalation:**
- Supply fresh air; consult doctor in case of symptoms.
-
- After skin contact**
-
- IF ON SKIN: Wash with plenty of soap and water.
-
- If skin irritation occurs, get medical attention.
-
- After eye contact:**
-
- 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.
-
- After swallowing:**
-
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
-
- IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

· 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media**

- Suitable extinguishing agents:**
- Water spray jet, extinguishing powder, CO
- ₂
- , foam.
-
- Unsuitable extinguishing agents for reasons of safety:**
- None

· 5.2 Special hazards arising from the substance or mixture

In case of fire, toxic incineration products may be released such as:

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Carbon monoxide (CO)

- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment (see item 8).
Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water courses.
Inform authorities in case of contamination of water or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Collect mechanically.
Send for recovery or disposal in suitable containers.
Dispose of contaminated material as waste according to item 13.

· 6.4 Reference to other sections None

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Provide good room ventilation or local exhaust ventilation at the workplace.
Prevent formation of dust.

Risks to the safety and health of workers may not only be created by work involving chemicals but, inter alia by work equipment and the fitting-out of work-places. Those risks shall be identified and evaluated.

· Information about protection against explosion and fire:

Protect against electrostatic charges.
Dust can combine with air to form an explosive mixture.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage

- **Requirements to be met by storerooms and containers:** Keep containers tightly sealed.
- **Information about storage in a common storage facility:** none
- **Further information about storage conditions:** Protect from humidity and keep away from water.
- **Sensitivity against UV-radiation and heat:** Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

- **Components with critical values that require monitoring at the workplace:** None established.
- **Additional information:** Information valid at the time of review of safety data sheet.

· 8.2 Exposure controls

· Technical protective equipment:

In case of contamination devices to rinse eyes or skin immediately under running water must be available.

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- **Personal protective equipment**
- **General protective and hygienic measures:**
Avoid contact with the eyes and the skin.
Wash hands during work breaks and at the end of the shift.
Use skin cream for skin protection.
Provide skin protection plan.
- **Respiratory protection:**
Put on respiratory equipment if dust develops.



Filter P1 (EN 149:2001+A1:2009)

- **Protection of hands:**



Chemical protective gloves (EN ISO 374-1:2016)

Check the condition of protective gloves after each use for any damages like holes, cuts or tears.
Do not wear protective gloves longer than necessary.
After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material:**
Thickness: 0.4 mm; break-through time: 480 min; material: Nitrile; permeation: level 6
- **Gloves made of the following materials are not suitable:**
Gloves for mechanical protection do not provide protection against chemicals.

- **Eye protection:**



Safety goggles (EN 166:2001)

- **Body protection:**



Protective clothing (EN ISO 13688:2013)

- **Risk management measures**

The operators shall be instructed adequately.
The workplace shall be inspected regularly by competent personnel e.g. the safety representative.
Rinsing water, residues and filter dust shall be separated and disposed of properly.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Granulate

Colour: White

- **Odour:** Characteristic

- **Odour threshold:** Not relevant for safety

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- **pH-value (100 g/l) at 20 °C:** 8-10
- **Change in condition**
 - **Melting point/freezing point:** 270 °C
 - **Initial boiling point and boiling range:** Not applicable
- **Flash point:** Not applicable.
- **Flammability (solid, gas):** Product is not inflammable.
- **Explosive properties:** Product is not explosive. However, formation of explosive air/dust mixtures is possible.

- **Critical values for explosion:**
 - **Oxidising properties** None
- **Vapour pressure at 20 °C:** < 0.001 hPa
- **Density at 20 °C:** ca. 1.3 g/cm³
- **Bulk density at 20 °C:** ca. 370 kg/m³
- **Relative density (D²⁰₄):** Not determined
- **Vapour density:** Not determined
- **Evaporation rate:** Not determined
- **Solubility in / Miscibility with**
 - **Water at 20 °C:** 582 g/l
- **Partition coefficient: n-octanol/water:** see section 12
- **Viscosity:**
 - **dynamic:** Not applicable
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**

The evaluation of the relevant available information does not show an indication of any metal corrosive property.
- **10.2 Chemical stability**
- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Minimum shelf life:** 24 months from production date.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**

None, if storage and handling is done according to specification.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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Acute toxicity estimates (ATE) or LD₅₀/LC₅₀ values:
24634-61-5 potassium sorbate

Oral	LD ₅₀	>2,000 mg/kg (rat) Dossier (REACH)
Dermal	LD ₅₀	>2,000 mg/kg (rat) Dossier (REACH)

- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:**
Causes serious eye irritation.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.
- **Carcinogenicity:** Based on available data, the classification criteria are not met.
- **Reproductive toxicity:** Based on available data, the classification criteria are not met.
- **STOT-single exposure:** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
24634-61-5 potassium sorbate

EC ₅₀ / 48 h	982 mg/l (Daphnia) (OECD 202) Dossier (REACH) 480 mg/l (Desmodesmus subspicatus) (OECD 201) Dossier (REACH)
LC ₅₀ / 96 h	>500 mg/l (Brachydanio rerio) (OECD 203) Dossier (REACH)
NOEC / 21 d	50 mg/l (Daphnia) (OECD 211) Dossier (REACH)

- **Evaluation:**
Based on the available data the classification criteria for hazard classes aquatic acute (short term) toxicity are not fulfilled.
Based on the available data the classification criteria for hazard classes aquatic, chronic (long term) toxicity are not fulfilled.
- **Toxicity on activated sludge organisms:**
- **Evaluation:**
If contaminated effluent water is properly entered into the sewage system, any interference with the degrading activity of the activated sludge organisms is not expected.

12.2 Persistence and degradability
Rapid degradability of organic substances:
24634-61-5 potassium sorbate

OECD 301 D Closed-Bottle-Test	74.9 % (Activated Sludge) read across from CAS-no. 110-44-1 - Dossier (REACH)
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- **Evaluation:** The components are biodegradable.
- **Behaviour in sewage treatment plants:**

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- **Evaluation:** The component(s) is (are) biodegradable in activated sludge units.
 - **12.3 Bioaccumulative potential**
- | | |
|--|--|
| · BCF / LogKow: | |
| 24634-61-5 potassium sorbate | |
| OECD 117 Log Kow Partition Coefficient | ≤1.72 (n-octanol/water)
Dossier (REACH) |
- **Evaluation:** Not worth-mentioning accumulating in organisms
 - **12.4 Mobility in soil** No further relevant information available.
 - **12.5 Results of PBT and vPvB assessment**
 - **PBT:** This substance does not meet the PBT criteria of REACH, annex XIII.
 - **vPvB:** This substance does not meet the vPvB criteria of REACH, annex XIII.
 - **12.6 Other adverse effects** Any other adverse effects on the environment are not expected.
 - **12.7 Additional information**
 - **Metals and their compounds according Directive 2006/11/EC:** None
 - **European Water Framework Directive 2000/60/EC (WFD) dated 23.10.2000:**
The product does not contain any priority substances according WFD that require a water monitoring.
 - **Absorbable organic halogen compounds (AOX - DIN EN ISO 9562):**
The product does not contain substances, which can influence the AOX of waste water.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must be specially treated as hazardous waste under adherence to official regulations.
Appropriate disposal operations according to Directive 2008/98/EC on waste: D 10 Incineration on land

· European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	off-specification batches and unused products
16 03 05*	organic wastes containing hazardous substances
HP 4	Irritant - skin irritation and eye damage

- **Contaminated packaging:**
- **Recommendation:**
Packaging can be reused or recycled after cleaning.
Do not allow cleaning liquid to enter into drains. Do not allow to enter into water.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** None
- **14.2 UN proper shipping name**
- **ADR** None

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- **IMDG, IATA** None
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- **Class** None
- **14.4 Packing group**
- **ADR, IMDG, IATA** None
- **14.5 Environmental hazards:**
- **Marine pollutant:** No
- **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.
- **Transport/Additional information:** Not hazardous for transport according to a.m. regulations.
- **UN "Model Regulation":** None

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **REGULATION (EC) No 1907/2006 ANNEX XVII:** For this type of products not relevant:
- **National regulations:**
- **Information about limitation of use:**
Take note of Directive 94/33/EC on the protection of young people at work.
Take note of Directive 92/85/EC on the safety and health of pregnant women at work.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This data is based on our current knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

- **Training hints**
Further information regarding the directions for use can be found in the Product Data Sheet.
- **Classification according to Regulation (EC) No 1272/2008**
The classification includes the relevant available information about the mixture or the substances contained therein.
The evaluation of the available information within the scope of classification refers to the forms and aggregate states in which the mixture has been placed on the market and will be used most likely.
- **Contact for technical information** Personal Care: info@thor.uk.com
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- **Key literature references and sources for data:**
Further information regarding physical-chemical, toxicological and ecotoxicological properties of the substances contained, can be taken from the data set for the substance (<http://echa.europa.eu/en/>).
- *** Data altered since the previous version.**