



## SAFETY DATA SHEET POTASSIUM (E,E) HEXA2,4 DIENOATE

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

#### 1.1. Product identifier

Product name	POTASSIUM (E,E) HEXA2,4 DIENOATE
Product number	21653
Synonyms; trade names	2,4 HEXADIENOIC ACID, POTASSIUM SALT, POTASSIUM SORBATE
CAS number	24634-61-5
EC number	246-376-1

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

Identified uses	Food / Feed additive Cosmetics
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#### 1.3. Details of the supplier of the safety data sheet

Supplier	Univar Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 sds@univar.com +44 1274 267306
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#### 1.4. Emergency telephone number

Emergency Contact Number (Office Hours)	+44 1274 267346
Emergency Contact Number (Outside Office Hours)	+441865 407333
Sds No.	21653

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC) Xi; R36/38

Human health The product is irritating to eyes and skin.

#### 2.2. Label elements

## POTASSIUM (E,E) HEXA2,4 DIENOATE

EC number 246-376-1

### Pictogram



Signal word Warning

Hazard statements  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.

Precautionary statements  
P264 Wash contaminated skin thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P321 Specific treatment (see medical advice on this label).  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Product name POTASSIUM (E,E) HEXA2,4 DIENOATE  
CAS number 24634-61-5  
EC number 246-376-1

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation** Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

**Ingestion** Rinse mouth thoroughly with water. Get medical attention if any discomfort continues. Do not induce vomiting.

**Skin contact** Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

### 4.2. Most important symptoms and effects, both acute and delayed

**Skin contact** Skin irritation.

**Eye contact** Irritation of eyes and mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## SECTION 5: Firefighting measures

## POTASSIUM (E,E) HEXA2,4 DIENOATE

### 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Avoid generation and spreading of dust. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Avoid spilling. Avoid contact with skin and eyes. Avoid handling which leads to dust formation.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Store in tightly-closed, original container. Keep container dry. Store in a cool and well-ventilated place. Protect against physical damage and/or friction.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

### 8.2. Exposure controls

#### Protective equipment



## POTASSIUM (E,E) HEXA2,4 DIENOATE

<b>Appropriate engineering controls</b>	Provide adequate ventilation.
<b>Eye/face protection</b>	The following protection should be worn: Chemical splash goggles.
<b>Hand protection</b>	Wear protective gloves. EN 374
<b>Other skin and body protection</b>	Provide eyewash station and safety shower. Wear apron or protective clothing in case of contact.
<b>Hygiene measures</b>	Do not smoke in work area. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	No specific recommendations. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m <sup>3</sup> . If ventilation is inadequate, suitable respiratory protection must be worn.

### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Dusty powder. Granules. Crystalline solid.
<b>Colour</b>	White.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not available. Not available.
<b>pH</b>	pH (concentrated solution): 8 - 11
<b>Melting point</b>	270°C
<b>Initial boiling point and range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Evaporation factor</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	1.36 @ @23°C OECD 109
<b>Solubility(ies)</b>	58.2 @ °C Soluble in water.
<b>Partition coefficient</b>	log Pow: 1.33
<b>Auto-ignition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.

#### 9.2. Other information

<b>Molecular weight</b>	150.22
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### SECTION 10: Stability and reactivity

## POTASSIUM (E,E) HEXA2,4 DIENOATE

### 10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will not polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 2,000

**Species** Rat

**Notes (dermal LD<sub>50</sub>)** OECD 402

#### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 5.15

**Notes (inhalation LC<sub>50</sub>)** OECD 403

#### Serious eye damage/irritation

**Serious eye damage/irritation** Irritating.

#### Respiratory sensitisation

**Respiratory sensitisation** Data lacking.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** Ames test: Negative. Does not contain any substances known to be mutagenic.

**Genotoxicity - in vivo** Not available.

#### Carcinogenicity

**Carcinogenicity** Not available.

#### Reproductive toxicity

**Reproductive toxicity - fertility** Not available.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

#### Specific target organ toxicity - repeated exposure

## POTASSIUM (E,E) HEXA2,4 DIENOATE

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

**Inhalation** Dust in high concentrations may irritate the respiratory system.

**Ingestion** May cause discomfort if swallowed.

**Skin contact** Irritating to skin.

**Eye contact** Irritating to eyes.

## SECTION 12: Ecological Information

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

### 12.1. Toxicity

**Acute toxicity - fish** LC50, 96 hours, 96 hours: > 1000 mg/l, *Onchorhynchus mykiss* (Rainbow trout)  
OECD 203

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours, 48 hours: 982 mg/l, *Daphnia magna*  
OECD 202

### 12.2. Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** log Pow: 1.33

### 12.4. Mobility in soil

**Mobility** The product is soluble in water.

**Surface tension** 72.6 mN/m @ 20°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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### 14.1. UN number

No information required.

### 14.2. UN proper shipping name

No information required.

### 14.3. Transport hazard class(es)

No information required.

### 14.4. Packing group

No information required.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

No information required.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information required.

## SECTION 15: Regulatory information

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

<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
<b>Guidance</b>	CHIP for everyone HSG228.
<b>Water hazard classification</b>	WGK 1
<b>Inventory Information</b>	AICS DSL EINECS PICCS NZIOC TSCA IECS KECL ISHL

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	28/08/2013
<b>Revision</b>	07
<b>Supersedes date</b>	14/06/2011
<b>SDS number</b>	21653
<b>SDS status</b>	Approved.
<b>Signature</b>	Mark Dryden

## POTASSIUM (E,E) HEXA2,4 DIENOATE

<b>Risk phrases in full</b>	R36/38 Irritating to eyes and skin.
<b>Hazard statements in full</b>	H315 Causes skin irritation. H319 Causes serious eye irritation.