

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, POT SORBATE

E202 GRAN NT, POT SORBATE E202, POT SORBATE EP, POT SORBATE E202 GRAN CLE, POT SORBATE E202 JBN, 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

REACH registration number 01-2119950315-41-XXXX

CAS number 24634-61-5 **EU index number** 019-003-00-3

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 Chemical Intermediate Personal Care Industrial application

For further information, see attached Exposure Scenario.

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 +44 1274 267306 sds@univar.com

1.4. Emergency telephone number

Emergency telephone SGS - +32 (0)3 575 55 55 (24h)

Sds No. 21653

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

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POTASSIUM (E,E) HEXA2,4 DIENOATE

EC number 246-376-1

Hazard pictograms



Signal word Warning

Hazard statements H319 Causes serious eye irritation.

Precautionary statements P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P264 Wash skin thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/ attention.

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

REACH registration number 01-2119950315-41-XXXX

 EU index number
 019-003-00-3

 CAS number
 24634-61-5

 EC number
 246-376-1

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Rinse nose and mouth with water. Get medical attention if any discomfort

continues.

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

discomfort continues.

Skin contact Remove affected person from source of contamination. After contact with skin, take off

immediately all contaminated clothing, and wash immediately with plenty of water. Get

medical attention if any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of

water. Continue to rinse for at least 15 minutes. Get medical attention.

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

Eye contact Causes serious eye irritation. 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

5.1. Extinguishing media

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

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards When heated and in case of fire, toxic vapours/gases may be formed.

Hazardous combustion

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of the following substances: Carbon.

5.3. Advice for firefighters

Protective actions during

firefighting

Evacuate area. Move containers from fire area if it can be done without risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without

risk. Provide adequate ventilation.

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

c. . . . Green a procedure of approximation and criticizency procedures

Evacuate area. Avoid heat, flames and other sources of ignition. Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing. Avoid generation and spreading of dust. Avoid inhalation of dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

6.2. Environmental precautions

Environmental precautions

Personal precautions

Do not discharge into drains or watercourses or onto the ground. 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. Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. 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 Obse

Observe good chemical hygiene practices. Avoid contact with skin, eyes and clothing. Avoid heat, flames and other sources of ignition. Take precautionary measures against static discharges. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Provide adequate ventilation. Avoid handling which leads to dust formation. Avoid breathing dust.

Advice on general occupational hygiene

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Protect from sunlight. Keep away from food, drink and animal feeding stuffs. Store away from the following materials: Strong oxidising agents.

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 commentsNo exposure limits known for ingredient(s).

DNEL Workers - Dermal; Long term systemic effects: 40 mg/kg

Workers - Inhalation; Long term systemic effects: 17.63 mg/m³
General population - Oral; Long term systemic effects: 2 mg/kg
General population - Dermal; Long term systemic effects: 20 mg/kg
General population - Inhalation; Long term systemic effects: 52.17 mg/m³

Workers - Oral; Long term local effects: 0.17 mg/cm²

General population - Inhalation; Long term local effects: 26.08 mg/m³

PNEC - Fresh water; 1 mg/l

marine water; 0.1 mg/l Intermittent release; 4.8 mg/l - Sediment (Freshwater); 3.6 mg/kg Sediment (Marinewater); 0.36 mg/kg

STP; 10 mg/lSoil; 1.67 mg/kg

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Provide eyewash station and safety shower. Eliminate all sources of ignition.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 8 hours. Nitrile rubber. glove thickness 1.5mm Butyl rubber. glove thickness 0.3mm To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Provide eyewash station and safety shower. Wear apron or protective clothing in case of contact.

Hygiene measures

Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Particulate filter, type P2. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Dusty powder. Granules. Crystalline solid. Solid

Colour White.

Odourless.

Odour threshold No information available.

pH pH (diluted solution): 7 @ 5%

Melting point 250°C

Initial boiling point and range No information available.

Flash point 178°C

Evaporation rate

No information available.

Evaporation factor

No information available.

Flammability (solid, gas)

No information available.

Upper/lower flammability or

explosive limits

No information available.

Other flammability No information available.

Vapour pressure 0 - 1.0 hPa @ x 10-7°C OECD 104

Vapour density

No information available.

Relative density

1.36 @ 20°C OECD 109

Bulk density

No information available.

Solubility(ies) Soluble in water.

Partition coefficient log Pow: -1.72 OECD 117

Auto-ignition temperature 178°C

Decomposition Temperature >210°C

Viscosity No information available.

Explosive properties Not considered to be explosive.

Explosive under the influence

of a flame

No information available.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Refractive index No information available.

Particle size No information available.

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Molecular weight 150.22

VolatilityNo information available.Saturation concentrationNo information available.Critical temperatureNo information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

No information available.

10.2. Chemical stability

Volatile organic compound

Stable at normal ambient temperatures. Will decompose at temperatures exceeding 210°C.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Will not polymerise.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid handling which leads to dust

formation.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of the following substances: Carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 10500 mg/kg, Oral, Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅o

2,000.0

mg/kg)

Species Rat

Notes (dermal LD₅₀) OECD 402

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅o

dust/mist mg/l)

5.15

Notes (inhalation LC₅₀) OECD 403

Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation. Rabbit OECD 405

Respiratory sensitisation

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Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

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 No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility No information 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

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 Slightly irritating.

Eye contact Causes serious eye irritation.

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

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

OECD 203

Acute toxicity - aquatic EC₅₀, 48 hours: 982 mg/l, Daphnia magna

invertebrates OECD 202

Acute toxicity - aquatic plants EC₅₀, 48 hours: 480 mg/l, Algae

Acute toxicity - EC₅₀, 3 hours: > 100 mg/l, Activated sludge

microorganisms OECD 209

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: -1.72 OECD 117

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 is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methodsDispose 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).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation

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).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt. DSL

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

Japan - ENCS

All the ingredients are listed or exempt.

Korea - KECI

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines - PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

CAS: Chemical Abstracts Service.

DNEL: Derived No Effect Level.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

Kow: Octanol-water partition coefficient.

LC₅o: Lethal Concentration to 50 % of a test population.

LD₅o: Lethal Dose to 50% of a test population (Median Lethal Dose).

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No Effect Concentration.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

vPvB: Very Persistent and Very Bioaccumulative.

IARC: International Agency for Research on Cancer.

MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978.

cATpE: Converted Acute Toxicity Point Estimate.

BCF: Bioconcentration Factor.

BOD: Biochemical Oxygen Demand.

EC₅₀: 50% of maximal Effective Concentration.

LOAEC: Lowest Observed Adverse Effect Concentration.

LOAEL: Lowest Observed Adverse Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

NOEC: No Observed Effect Concentration.

LOEC: Lowest Observed Effect Concentration.

DMEL: Derived Minimal Effect Level.

EL50: Exposure Limit 50

hPa: Hectopascal

LL50: Lethal Loading fifty

OECD: Organisation for Economic Co-operation and Development

POW: Octanol-water partition coefficient SCBA: self-contained breathing apparatus

STP: Sewage Treatment Plant VOC: Volatile Organic Compounds

Classification abbreviations

Acute Tox. = Acute toxicity

and acronyms

Aquatic Acute = Hazardous to the aquatic environment (acute)

Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and

sources for data

Supplier's information.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 23/08/2019

Version number 6.000

Supersedes date 21/06/2019

SDS number 21653

SDS status Approved.

Hazard statements in full H319 Causes serious eye irritation.

Signature Jacq Pattinson



Exposure scenario Formulation

Identification

Product name POTASSIUM (E,E) HEXA2,4 DIENOATE

REACH registration number 01-2119950315-41-XXXX

CAS number 24634-61-5 **EC number** 246-376-1

Supplier Univar

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1. Title of exposure scenario

Main title Formulation

Main sector SU3 Industrial uses

Environment

Environmental release

category

ERC2 Formulation into mixture

Worker

Process category PROC1 Chemical production or refinery in closed process without likelihood of exposure or

processes with equivalent containment conditions

PROC2 Chemical production or refinery in closed continuous process with occasional

controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with

occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated

facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including

weighing)

PROC10 Roller application or brushing

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent.

2. Conditions of use affecting exposure (Industrial - Environment 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Amounts used

Daily amount per site: 3.5 tonnes Annual site tonnage: 700 tonnes

Environmental factors not influenced by risk management measures

Dilution Receiving surface water flow: 18000 m³/day

Risk management measures

STP type Municipal STP.

STP details Assumed domestic sewage treatment plant flow: 2000 m³/day

Estimated substance removal from wastewater via domestic sewage treatment: 87.3%

Conditions and measures related to external treatment of waste for disposal

Disposal method Dispose of waste or used sacks/containers according to local regulations.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Other given operational conditions affecting workers exposure

Setting Indoor.

Temperature Assumes activities are at ambient temperature (unless stated differently).

Ventilation rate Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc.

Controlled ventilation means air is supplied or removed by a powered fan.

Technical conditions and measures at process level (source) to prevent release

Technical protective measures Provide extract ventilation to points where emissions occur.

PROC4 Chemical production where opportunity for exposure arises PROC5 Mixing or blending in batch processes PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC14 Tabletting, compression, extrusion, pelletisation, granulation Local exhaust ventilation - efficiency of at least [%]: 80

Organisational measures to prevent/limit releases, dispersion and exposure

Organisational measures Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures

PROC10 Roller application or brushing Wear suitable gloves tested to EN374.

3. Exposure estimation (Environment 1)

Assessment method Used EUSES model.

Environmental exposure Fresh water: Exposure 0.444 mg/l, PNEC 0.48 mg/l, RCR 0.926

freshwater sediment: Exposure 1.601 mg/kg, PNEC 1.73 mg/kg, RCR 0.925

Marine water: Exposure 0.044 mg/l, PNEC 0.048 mg/l, RCR 0.926 marine sediment: Exposure 0.16 mg/kg, PNEC 0.173 mg/kg, RCR 0.925

STP: Exposure 4.43 mg/l, PNEC 10 mg/l, RCR 0.443 Soil: Exposure 0.006 mg/kg, PNEC 1.67 mg/kg, RCR <0.01

3. Exposure estimation (Health 1)

Assessment method The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise

indicated

Exposure

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Worker - inhalation, long-term - systemic: Exposure 0.1 mg/m³, DNEL 17.63 mg/m³, RCR <0.01

Worker - dermal, long-term - systemic: Exposure 0.034 mg/kg/day, DNEL 40 mg/kg/day, RCR <0.01

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 1.37 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.034

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 0.69 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.017

PROC4 Chemical production where opportunity for exposure arises

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 6.86 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.172

PROC5 Mixing or blending in batch processes

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Worker - inhalation, long-term - systemic: Exposure 14 mg/kg/day, DNEL 17.63 mg/kg/day, RCR 0.794

Worker - dermal, long-term - systemic: Exposure 6.86 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.172

PROC10 Roller application or brushing

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 5.486 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.137

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 3.43 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.086

PROC15 Use as laboratory reagent.

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284

Worker - dermal, long-term - systemic: Exposure 0.34 mg/kg/day, DNEL 40 mg/kg/day, RCR $<\!0.01$



Exposure scenario Formulation of cosmetic products

Identification

Product name POTASSIUM (E,E) HEXA2,4 DIENOATE

REACH registration number 01-2119950315-41-XXXX

CAS number 24634-61-5 **EC number** 246-376-1

Supplier Univar

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1. Title of exposure scenario

Main title Formulation of cosmetic products

Main sector SU3 Industrial uses

Environment

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category

ERC2 Formulation into mixture

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Process category PROC1 Chemical production or refinery in closed process without likelihood of exposure or

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facilities

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weighing)

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent.

2. Conditions of use affecting exposure (Industrial - Environment 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Formulation of cosmetic products

Amounts used

Daily amount per site: 3.5 tonnes Annual site tonnage: 600 tonnes

Environmental factors not influenced by risk management measures

Dilution Receiving surface water flow: 18000 m³/day

Risk management measures

STP type Municipal STP.

STP details Assumed domestic sewage treatment plant flow: 2000 m³/day

Estimated substance removal from wastewater via domestic sewage treatment: 87.3%

Conditions and measures related to external treatment of waste for disposal

Disposal methodDispose of waste or used sacks/containers according to local regulations.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Other given operational conditions affecting workers exposure

Setting Indoor.

Temperature Assumes activities are at ambient temperature (unless stated differently).

Ventilation rate Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc.

Controlled ventilation means air is supplied or removed by a powered fan.

Technical conditions and measures at process level (source) to prevent release

Technical protective measures Provide extract ventilation to points where emissions occur.

PROC5 Mixing or blending in batch processes PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC14 Tabletting, compression, extrusion, pelletisation, granulation Local exhaust ventilation - efficiency of at least [%]: 80

Organisational measures to prevent/limit releases, dispersion and exposure

Organisational measures Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

Wear a respirator providing a minimum efficiency of (%): 90

3. Exposure estimation (Environment 1)

Assessment method Used EUSES model.

Environmental exposure Fresh water: Exposure 0.444 mg/l, PNEC 0.48 mg/l, RCR 0.926

freshwater sediment: Exposure 1.601 mg/kg, PNEC 1.73 mg/kg, RCR 0.925

Marine water: Exposure 0.044 mg/l, PNEC 0.048 mg/l, RCR 0.926 marine sediment: Exposure 0.16 mg/kg, PNEC 0.173 mg/kg, RCR 0.925

STP: Exposure 4.43 mg/l, PNEC 10 mg/l, RCR 0.443 Soil: Exposure 0.006 mg/kg, PNEC 1.67 mg/kg, RCR <0.01

Formulation of cosmetic products

3. Exposure estimation (Health 1)

Assessment method

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Exposure

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Worker - inhalation, long-term - systemic: Exposure 0.1 mg/m³, DNEL 17.63 mg/m³, RCR <0.01

Worker - dermal, long-term - systemic: Exposure 0.034 mg/kg/day, DNEL 40 mg/kg/day, RCR <0.01

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 1.37 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.034

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 0.69 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.017

PROC5 Mixing or blending in batch processes

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Worker - inhalation, long-term - systemic: Exposure 14 mg/kg/day, DNEL 17.63 mg/kg/day, RCR 0.794

Worker - dermal, long-term - systemic: Exposure 6.86 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.172

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 3.43 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.086

PROC15 Use as laboratory reagent.

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 0.34 mg/kg/day, DNEL 40 mg/kg/day, RCR <0.01



Exposure scenario Industrial use as a processing aid

Identification

Product name POTASSIUM (E,E) HEXA2,4 DIENOATE

REACH registration number 01-2119950315-41-XXXX

CAS number 24634-61-5 **EC number** 246-376-1

Supplier Univar

Aquarius House

6 Mid Point Business Park

Bradford BD3 7AY

+44 1274 267300 +44 1274 267306 sds@univar.com

1. Title of exposure scenario

Main title Industrial use as a processing aid

Main sector SU3 Industrial uses

Sector of use SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging

Environment

Environmental release

category

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC6a Use of intermediate

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Worker

Process category PROC1 Chemical production or refinery in closed process without likelihood of exposure or

processes with equivalent containment conditions

PROC2 Chemical production or refinery in closed continuous process with occasional

controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with

occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated

facilities

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including

weighing)

PROC10 Roller application or brushing

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

PROC15 Use as laboratory reagent.

2. Conditions of use affecting exposure (Industrial - Environment 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Amounts used

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Daily amount per site: 1 tonnes Annual site tonnage: 60 tonnes ERC6a Use of intermediate Daily amount per site: 3 tonnes Annual site tonnage: 60 tonnes

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Daily amount per site: 3 tonnes Annual site tonnage: 600 tonnes

Environmental factors not influenced by risk management measures

Dilution Receiving surface water flow: 18000 m³/day

Risk management measures

STP type Municipal STP.

STP details Assumed domestic sewage treatment plant flow: 2000 m³/day

Estimated substance removal from wastewater via domestic sewage treatment: 87.3%

Conditions and measures related to external treatment of waste for disposal

Disposal methodDispose of waste or used sacks/containers according to local regulations.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Other given operational conditions affecting workers exposure

Setting Indoor.

Temperature Assumes activities are at ambient temperature (unless stated differently).

Ventilation rate Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc.

Controlled ventilation means air is supplied or removed by a powered fan.

Technical conditions and measures at process level (source) to prevent release

Technical protective measures Provide extract ventilation to points where emissions occur.

PROC4 Chemical production where opportunity for exposure arises PROC5 Mixing or blending in batch processes PROC10 Roller application or brushing PROC14 Tabletting, compression, extrusion, pelletisation, granulation Local exhaust ventilation - efficiency of at

least [%]: 90

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities

Local exhaust ventilation - efficiency of at least [%]: 95

Organisational measures to prevent/limit releases, dispersion and exposure

Organisational measures Assumes a good basic standard of occupational hygiene is implemented.

Risk management measures

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated

facilities

PROC10 Roller application or brushing

Wear a respirator providing a minimum efficiency of (%): 90

PROC10 Roller application or brushing Wear suitable gloves tested to EN374.

3. Exposure estimation (Environment 1)

Assessment method Used EUSES model.

Environmental exposure ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

Fresh water: Exposure 0.318 mg/l, PNEC 0.48 mg/l, RCR 0.662

freshwater sediment: Exposure 1.145 mg/kg, PNEC 1.73 mg/kg, RCR 0.662

Marine water: Exposure 0.032 mg/l, PNEC 0.048 mg/l, RCR 0.662 marine sediment: Exposure 0.114 mg/kg, PNEC 0.173 mg/kg, RCR 0.662

STP: Exposure 3.165 mg/l, PNEC 10 mg/l, RCR 0.316 Soil: Exposure 0.002 mg/kg, PNEC 1.67 mg/kg, RCR <0.01

ERC6a Use of intermediate

Fresh water: Exposure 0.381 mg/l, PNEC 0.48 mg/l, RCR 0.794

freshwater sediment: Exposure 1.373 mg/kg, PNEC 1.73 mg/kg, RCR 0.794

Marine water: Exposure 0.038 mg/l, PNEC 0.048 mg/l, RCR 0.794 $\,$

marine sediment: Exposure 0.137 mg/kg, PNEC 0.173 mg/kg, RCR 0.793

STP: Exposure 3.797 mg/l, PNEC 10 mg/l, RCR 0.38 Soil: Exposure 0.002 mg/kg, PNEC 1.67 mg/kg, RCR <0.01

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Fresh water: Exposure 0.381 mg/l, PNEC 0.48 mg/l, RCR 0.794

freshwater sediment: Exposure 1.373 mg/kg, PNEC 1.73 mg/kg, RCR 0.794

Marine water: Exposure 0.038 mg/l, PNEC 0.048 mg/l, RCR 0.794 $\,$

marine sediment: Exposure 0.137 mg/kg, PNEC 0.173 mg/kg, RCR 0.793 $\,$

STP: Exposure 3.797 mg/l, PNEC 10 mg/l, RCR 0.38

Soil: Exposure 0.0008746 mg/kg, PNEC 1.67 mg/kg, RCR < 0.01

3. Exposure estimation (Health 1)

Assessment method

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated

Exposure

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions

Worker - inhalation, long-term - systemic: Exposure 0.1 mg/m³, DNEL 17.63 mg/m³, RCR <0.01

Worker - dermal, long-term - systemic: Exposure 0.034 mg/kg/day, DNEL 40 mg/kg/day, RCR <0.01

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

Worker - inhalation, long-term - systemic: Exposure 1 mg/m³, DNEL 17.63 mg/m³, RCR 0.057 Worker - dermal, long-term - systemic: Exposure 1.37 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.034

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

Worker - inhalation, long-term - systemic: Exposure 1 mg/m³, DNEL 17.63 mg/m³, RCR 0.057 Worker - dermal, long-term - systemic: Exposure 0.69 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.017

PROC4 Chemical production where opportunity for exposure arises

Worker - inhalation, long-term - systemic: Exposure 2.5 mg/m³, DNEL 17.63 mg/m³, RCR 0.142

Worker - dermal, long-term - systemic: Exposure 6.86 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.172

PROC5 Mixing or blending in batch processes

Worker - inhalation, long-term - systemic: Exposure 2.5 mg/m³, DNEL 17.63 mg/m³, RCR 0.142

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities Worker - inhalation, long-term - systemic: Exposure 1.25 mg/m³, DNEL 17.63 mg/m³, RCR 0.071

Worker - dermal, long-term - systemic: Exposure 13.71 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.343

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

Worker - inhalation, long-term - systemic: Exposure 14 mg/kg/day, DNEL 17.63 mg/kg/day, RCR 0.794

Worker - dermal, long-term - systemic: Exposure 6.86 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.172

PROC10 Roller application or brushing

Worker - inhalation, long-term - systemic: Exposure 1 mg/m³, DNEL 17.63 mg/m³, RCR 0.057 Worker - dermal, long-term - systemic: Exposure 5.486 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.137

PROC14 Tabletting, compression, extrusion, pelletisation, granulation

Worker - inhalation, long-term - systemic: Exposure 10 mg/m³, DNEL 17.63 mg/m³, RCR 0.567

Worker - dermal, long-term - systemic: Exposure 3.43 mg/kg/day, DNEL 40 mg/kg/day, RCR 0.086

PROC15 Use as laboratory reagent.

Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284 Worker - dermal, long-term - systemic: Exposure 0.34 mg/kg/day, DNEL 40 mg/kg/day, RCR <0.01



Exposure scenario Use as a laboratory reagent

Identification

Product name POTASSIUM (E,E) HEXA2,4 DIENOATE

REACH registration number 01-2119950315-41-XXXX

CAS number 24634-61-5 **EC number** 246-376-1

Supplier Univar

Aquarius House

6 Mid Point Business Park

Bradford BD3 7AY

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1. Title of exposure scenario

Main title Use as a laboratory reagent

Main sector SU3 Industrial uses

SU22 Professional uses

Environment

Environmental release ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article,

category indoor)

Worker

Process category PROC15 Use as laboratory reagent.

2. Conditions of use affecting exposure (Industrial - Environment 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Amounts used

Small scale

Environmental factors not influenced by risk management measures

Dilution Receiving surface water flow: 18000 m³/day

Risk management measures

STP type Municipal STP.

STP details Assumed domestic sewage treatment plant flow: 2000 m³/day

Estimated substance removal from wastewater via domestic sewage treatment: 87.3%

Use as a laboratory reagent

Conditions and measures related to external treatment of waste for disposal

Disposal methodDispose of waste or used sacks/containers according to local regulations.

2. Conditions of use affecting exposure (Workers - Health 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently).

Other given operational conditions affecting workers exposure

Setting Indoor.

Temperature Assumes activities are at ambient temperature (unless stated differently).

Ventilation rate Provide a good standard of general ventilation. Natural ventilation is from doors, windows etc.

Controlled ventilation means air is supplied or removed by a powered fan.

Technical conditions and measures at process level (source) to prevent release

Technical protective measures No specific risk management measure identified beyond those operational conditions stated.

Organisational measures to prevent/limit releases, dispersion and exposure

Organisational measures Assumes a good basic standard of occupational hygiene is implemented.

3. Exposure estimation (Environment 1)

Assessment method Used EUSES model.

Environmental exposure Fresh water: Exposure 0.002 mg/l, PNEC 0.48 mg/l, RCR <0.01

freshwater sediment: Exposure 0.009 mg/kg, PNEC 1.73 mg/kg, RCR <0.01 Marine water: Exposure 0.0002364 mg/l, PNEC 0.048 mg/l, RCR <0.01 marine sediment: Exposure 0.0008514 mg/kg, PNEC 0.173 mg/kg, RCR <0.01

STP: Exposure 0.01 mg/l, PNEC 10 mg/l, RCR < 0.01

Soil: Exposure 0.000711 mg/kg, PNEC 1.67 mg/kg, RCR < 0.01

3. Exposure estimation (Health 1)

Assessment method The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise

indicated

Exposure Worker - inhalation, long-term - systemic: Exposure 5 mg/m³, DNEL 17.63 mg/m³, RCR 0.284

Worker - dermal, long-term - systemic: Exposure 0.34 mg/kg/day, DNEL 40 mg/kg/day, RCR

<0.01

Revision date: 23/08/2019 Version number: 6.000 Supersedes date: 21/06/2019



Exposure scenario Consumer use of cosmetic products

Identification

Product name POTASSIUM (E,E) HEXA2,4 DIENOATE

REACH registration number 01-2119950315-41-XXXX

CAS number 24634-61-5 **EC number** 246-376-1

Supplier Univar

Aquarius House

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1. Title of exposure scenario

Main title Consumer use of cosmetic products

Product category PC39 Cosmetics, personal care.

Main sector SU21 Consumer uses

Environment

Environmental release ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article,

category indoor)

2. Conditions of use affecting exposure (Non-industrial - Environment 1)

Product characteristics

Concentration details Covers concentrations up to 100 %.

Amounts used

Small scale

Risk management measures

Good practice Dispose of waste or used sacks/containers according to local regulations.

STP type Municipal STP.

STP details Assumed domestic sewage treatment plant flow: 2000 m³/day

2. Conditions of use affecting exposure (Non-industrial - Health 1)

Product characteristics

Consumer use of cosmetic products

Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: for cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.

3. Exposure estimation (Environment 1)

Assessment method Used EUSES model.

Environmental exposure Fresh water: Exposure 0.002 mg/l, PNEC 0.48 mg/l, RCR <0.01

freshwater sediment: Exposure 0.007 mg/kg, PNEC 1.73 mg/kg, RCR <0.01 Marine water: Exposure 0.0001981 mg/l, PNEC 0.048 mg/l, RCR <0.01 marine sediment: Exposure 0.0007135 mg/kg, PNEC 0.173 mg/kg, RCR <0.01

STP: Exposure 0.007 mg/l, PNEC 10 mg/l, RCR < 0.01

Soil: Exposure 0.0007109 mg/kg, PNEC 1.67 mg/kg, RCR <0.01 $\,$

3. Exposure estimation (Health 1)

In accordance to the Article 14 (5b) of the REACH Regulation (EC) No 1907/2006, exposure estimation and risk characterisation for human health does not need to be performed for end uses in cosmetic products within the scope of Directive 76/768/EEC.