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# MATERIAL SAFETY DATA SHEET

# Potassium tetrathionate

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

#### 1.1 Product identifiers:

Product name: Potassium tetrathionate

Product number: 0013932133

**Brand: Discovery** 

Reach No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require registration or the registration is envisaged for a later

Registration deadline. Cas No.: 13932-13-3

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

Identified uses: laboratory chemicals, manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company: Discovery Fine Chemicals Ltd

Unit 4A, Old Forge Road, Ferndown Ind. Estate,

Wimborne, Dorset, BH21 7RR.

United Kingdom
Telephone: +44 (0)1202 874517
Fax: +44 (0)845 0944 385

E-mail: <u>discovery@discofinechem.com</u> **1.4 Emergency telephone**: +44 (0)7912 646956

#### **SECTION 2. HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Skin irritation (Category 2), H315 Eye irritation (category 2) H319 Stot SE (category 3) H335

For the full text of the H-Statements mentioned in this section see section 16

# Classification according to EU Directives 67/548/EEC or 1999/45/EC

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

**Pictogram** 

Signal word: Warning Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

Precautionary statement(s)

P260 Avoid breathing dust

P280 Wear protective clothing and eye protection

P304+P340 If inhaled move into fresh air and rest in comfortable breathing position.

P302+P352 If on SKIN wash with plenty of water. Remove contact lenses. Continue rinsing.

P305+P351+P338 if in EYES remove contact lenses and rinse with water. Continue rinsing.

### 2.3 Other hazards

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

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 Substances

Formula: KOSO2SSSO3K Molecular Weight: 302.45 g/mol

Cas No: 13932-13-3 E.C.No: 237-702-3 Component

Potassium tetrathionate

Classification Concentration CAS-No. 13932-13-3 Skin irr.2 <=99%

E.C.No. 237-702-3 Eye irr.2 Stot SE3

H315,H319,H335,H336

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

If inhaled - If breathed in, move person into fresh air. Consult a doctor if feeling unwell.

In case of skin contact – Remove all contaminated clothing. Rinse skin with water. Consult a physician.

In case of eye contact - Flush eyes with water. Remove contact lenses. Call an ophthalmologist.

If swallowed - Make victim drink water and consult a doctor

**4.2 Most important symptoms and effects, both acute and delayed –** the most important known symptoms and effects are described in the labelling (see section 2.2 and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

no data available

# **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

**Suitable extinguishing media –** use water spray, alcohol resistant foam, dry chemical or carbon dioxide (CO2) **Unsuitable extinguishing media –** for this substance no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Carbon oxides Nitrogen oxides (NOx) Sulfur Oxides

- **5.3 Advice for firefighters –** wear self-contained breathing apparatus. Prevent skin contact by keeping a safe distance.
- **5.4 Further information –** suppress gases and vapours with a spray jet. Prevent extinguishing water from contaminating surface water

# 6. ACCIDENTAL RELEASE MEASURES

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

Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area. For personal protection see section 8.

- **6.2 Environmental precautions -** Do not let product enter drains.
- **6.3 Methods and materials for containment and cleaning up –** pick up and arrange disposal without creating dust. Sweep and shovel up. Keep in suitable closed containers for disposal.
- **6.4 Reference to other sections -** For disposal see section 13.

#### 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

For precautions see section 2.2

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: 2 to 8°C

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.1 no other specific uses are stipulated

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

# Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

**Appropriate engineering controls -** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

**Eye/face protection -** Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection -** Handle with gloves. Gloves must be inspected prior to use.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:KCL 741 Dermatril®

Splash protection Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril®

**Body Protection -** Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** -For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# 9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on basic physical and chemical properties
- a) Appearance Form: powder
- b) Odour no data available
- c) Odour Threshold no data available
- d) Melting point/range: no data available
- e) Initial boiling point and boiling range no data available
- f) Flammability (solid, gas) no data available
- g) Upper/lower flammability or explosive limits no data available
- h) Flash point not applicable
- i) Autoignition temperature no data available
- j) Decomposition temperature no data avaialble
- k) pH no data available
- I) Viscosity viscosity, kinematic: no data available
  - viscosity dynamic: no data available
- m) Water solubility no data available
- n) Partition coefficient: no data available.
- o) Vapour pressure no data available
- p) Density no data available
  - Relative density no data available
- q) Relative vapour density no data available
- r) Particle characteristics no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available
- 9.2 Other safety information no data available

# 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

No data avaialble

#### 10.2 Chemical stability

The product is chemically stable under recommended storage conditions

#### 10.3 Possibility of hazardous reactions

Violent reactions possible with: strong oxidising agents

# 10.4 Conditions to avoid

no data available

# 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

In the event of fire see section 5

#### 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

### **Acute toxicity**

Inhalation - no data available

Dermal - no data available

Skin corrosion/irritation - no data available

Serious eye damage/eye irritation

No data available

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

No data available

#### Reproductive toxicity

No data available

### Specific target organ toxicity - single exposure

No data available

### Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

# 11.2 Additional Information

#### **Endocrine disrupting properties**

# Product

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 12. ECOLOGICAL INFORMATION

- 12.1 Toxicity no data available
- 12.2 Persistence and degradability no data available
- 12.3 Bio-accumulative potential no data available
- 12.4 Mobility in soil no data available

# 12.5 Results of PBT and vPvB assessment

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

# 12.6 Endocrine disrupting properties

# **Product**

Assessment

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

#### 12.7 Other adverse effects

No data available

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself according to notice directive on waste 2008/98/EC.

# 14. TRANSPORT INFORMATION

#### 14.1 UN number NONE

# 14.2 UN proper shipping name

ADR/RID: none IMDG: none IATA: none

# 14.3 Transport hazard class(es)

ADR/RID: - none 14.4 Packaging group

ADR/RID: - none

#### 14.5 Environmental hazards

ADR/RID: no IMDG Marine Pollutant: no IATA: no

# 14.6 Special precautions for user

#### **Further Information**

Not classified as dangerous in the meaning of transport regulations

### 15. REGULATORY INFORMATION

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of DIR 94/33/EC on the protection of young people at work

# 15.2 Chemical Safety Assessment -

For this product a chemical safety assessment was not carried out.

# **16. OTHER INFORMATION**

# Text of H-code(s) and R-phrase(s) mentioned in Section 2 and 3

H315 Causes skin irritation.

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness

# Precautionary statement(s)

P260 Avoid breathing dust

P280 Wear protective clothing as appropriate

P280 Wear protective clothing and eve protection

P304+P340 If inhaled move into fresh air and rest in comfortable breathing position.

P302+P352 If on SKIN wash with plenty of water. Remove contact lenses. Continue rinsing.

P305+P351+P338 if in EYES remove contact lenses and rinse with water. Continue rinsing.

# **Further information**

#### WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product.

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### **APPENDIX**

#### ABBREVIATIONS FULL TEXT

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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

ALARP As low as is reasonably practicable

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging Regulations

COSHH Control of Substances Hazardous to Health EC Number European Community Number

EC50 Effective Concentration 50%

ECHA European Chemicals Agency

ELINCS European List of Notified Chemical Substances

EINECS European Inventory of Existing Commercial Chemical Substances GHS Globally Harmonised System HSE

Health & Safety Executive UK

IATA International Air Transport Association

IM Intramuscular

IMDG The International Maritime Dangerous Goods Code

IP Intraperitoneal

IV Intravascular

LD50 Lethal Dose 50%

LOEC Lowest Observable Effective Concentration

LTEL Long Term Exposure Limit

NOEC No Observable Effective Concentration

OECD Organisation for Economic Cooperations and Development

OSHA European Agency for Safety and Health at work

PBT Persistent Bioaccumulative and Toxic substance

PPE Personal Protective Equipment

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations Concerning the International Carriage of Dangerous Goods by Rail

SC Subcutaneous

SDS Safety Data Sheet

SIEF Substance Information Exchange Forum

STEL Short Term Exposure Limit

STOT (RE) Specific Target Organ Toxicity - repeated exposure

STOT (SE) Specific Target Organ Toxicity - single exposure

SVHC Substance of Very High Concern

**VOC Volatile Organic Compounds** 

vPvB Very Persistent and Very Bioaccumulative

WEL Workplace Exposure Limits