

SAFETY DATA SHEET

Creation Date 30-Oct-2009

Revision Date 27-Mar-2024

Revision Number 3

1. Identification

Product Name

Potassium hydrogen phthalate, primary standard

Cat No. :

CAS No Synonyms

Recommended Use Uses advised against Potassium acid phthalate; Potassium biphthalate

t Laboratory chemicals. Food, drug, pesticide or biocidal product use.

33351

877-24-7

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

<u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

| Component | | CAS No | Weight % |
|---|--|----------------------------------|---|
| 1,2-Benzenedicarboxylic acid, mon | opotassium salt | 877-24-7 | >95 |
| | | | |
| | 4. Fir | st-aid measures | |
| Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minumedical attention if irritation persists. | | | the eyelids, for at least 15 minutes. Get |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur. | | |
| Inhalation | Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration. | | |
| Ingestion | Do NOT induce v | vomiting. Get medical attention. | |
| Most important symptoms and effects | No information available. Treat symptomatically | | |
| Notes to Physician | | | |
| | E Fire | fighting mancuras | |

5. Fire-fighting measures

| Suitable Extinguishing Media | Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. |
|--|--|
| Unsuitable Extinguishing Media | No information available |
| Flash Point Method - | No information available No information available |
| Autoignition Temperature Explosion Limits | No information available |
| Upper Lower | No data available No data available |

Sensitivity to Static Discharge No information available

Sensitivity to Mechanical Impact No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

| NFPA Health 1 | Flammability 1 | Instability 0 | Physical hazards N/A |
|---------------------------|---|--------------------------------|------------------------------|
| | 6. Accidental re | lease measures | |
| Personal Precautions | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. | | |
| Environmental Precautions | Should not be released into Information. | o the environment. See Section | 12 for additional Ecological |

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

| Up | |
|-------------------------------|---|
| | 7. Handling and storage |
| Handling | Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. |
| Storage. | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. |
| 8. E | xposure controls / personal protection |
| Exposure Guidelines | This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies. |
| Engineering Measures | None under normal use conditions. |
| Personal Protective Equipment | |
| Eye/face Protection | Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. |
| Skin and body protection | Wear appropriate protective gloves and clothing to prevent skin exposure. |
| Respiratory Protection | No protective equipment is needed under normal use conditions. |
| Recommended Filter type: | Particle filter. |
| Hygiene Measures | Handle in accordance with good industrial hygiene and safety practice. |

| Appearance W Odor O Odor Threshold N- pH 3 | olid /hite dorless o information available |
|---|---|
| Odor O Odor Threshold N pH 3 | dorless |
| Odor Threshold No pH 3 | |
| pH 3 | o information available |
| • | |
| Melting Point/Range 2 | 8.8-4.0 5% aq.sol |
| | 295 - 300 °C / 563 - 572 °F |
| Boiling Point/Range N | o information available |
| Flash Point N | o information available |
| Evaporation Rate N | ot applicable |
| Flammability (solid,gas) N | o information available |
| Flammability or explosive limits | |
| Upper N | o data available |
| Lower N | o data available |
| Vapor Pressure N | o information available |
| Vapor Density N | ot applicable |
| Specific Gravity N | o information available |
| Solubility | lightly soluble in water |
| Partition coefficient; n-octanol/water N | o data available |
| Autoignition Temperature N | o information available |
| | o information available |
| Viscosity | ot applicable |
| Molecular Formula C | 8 H5 K O4 |
| Molecular Weight 20 | 04.22 |

10. Stability and reactivity

| Reactive Hazard | None known, based on information available | |
|---|---|--|
| Stability | Stable under normal conditions. | |
| Conditions to Avoid | Incompatible products. Excess heat. Avoid dust formation. | |
| Incompatible Materials | Strong oxidizing agents | |
| Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2) | | |
| Hazardous Polymerization | Hazardous polymerization does not occur. | |
| Hazardous Reactions | None under normal processing. | |

11. Toxicological information

Acute Toxicity

Product Information Component Information

| Component information | | | | | |
|--|--------------------------|-------------|-----------------|--|--|
| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | | |
| 1,2-Benzenedicarboxylic acid, monopotassium salt | LD50 > 3200 mg/kg (Rat) | >1000 mg/kg | Not listed | | |
| Toxicologically Synergistic | No information available | | | | |
| Products | | | | | |
| Delayed and immediate effects as well as chronic effects from short and long-term exposure | | | | | |

| Delayed and immediate effects as w | ell as chronic effects | from short and | long-term exposu |
|------------------------------------|------------------------|----------------|------------------|
| - | | | |

| Irritation | No information available |
|------------|--------------------------|
|------------|--------------------------|

| Sensitization | No information available |
|---------------|--------------------------|
| | |

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component | CAS No | IARC | NTP | ACGIH | OSHA | Mexico |
|---|-----------------|-----------------------------|---------------------|-----------------------|------------|------------|
| 1,2-Benzenedicarboxyl ic acid, monopotassium salt | 877-24-7 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Mutagenic Effects | | No information ava | ailable | | • | |
| Reproductive Effect | S | No information ava | ailable. | | | |
| Developmental Effe | cts | No information ava | ailable. | | | |
| Teratogenicity | | No information available. | | | | |
| STOT - single expos STOT - repeated exp | | None known None known | | | | |
| Aspiration hazard | | No information ava | ailable | | | |
| Symptoms / effects delayed | ,both acute and | nd No information available | | | | |
| Endocrine Disrupto | r Information | No information ava | ailable | | | |
| Other Adverse Effect | ets | The toxicological p | properties have not | t been fully investig | gated. | |
| | | 12. Ecol | ogical infor | mation | | |
| Ecotoxicity | | | | | | |

Do not empty into drains.

 Persistence and Degradability
 Soluble in water Persistence is unlikely based on information available.

 Bioaccumulation/ Accumulation
 No information available.

 Mobility
 Will likely be mobile in the environment due to its water solubility.

 Component
 log Pow

 1.2 Representation available
 3.0

| | aciu, monopolassium sali | -3.9 |
|------------------------|--------------------------|---|
| | | |
| | 13. Disposal c | considerations |
| Waste Disposal Methods | hazardous waste. Chemic | brs must determine whether a discarded chemical is classified as a ical waste generators must also consult local, regional, and e regulations to ensure complete and accurate classification. |

| 14. Transport information | | | | |
|----------------------------|---------------|--|--|--|
| DOT | Not regulated | | | |
| DOT TDG IATA | Not regulated | | | |
| ΙΑΤΑ | Not regulated | | | |
| IMDG/IMO | Not regulated | | | |
| 15. Regulatory information | | | | |

United States of America Inventory

| Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|---|----------|------|--|--------------------------------|
| 1,2-Benzenedicarboxylic acid, monopotassium salt | 877-24-7 | Х | ACTIVE | - |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

51)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component | CAS No | DSL | NDSL | EINECS | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|-------------------------------|----------|-----|------|-----------|-------|------|------|------|-------|----------|
| 1,2-Benzenedicarboxylic acid, | 877-24-7 | Х | - | 212-889-4 | Х | Х | Х | Х | Х | KE-02310 |
| monopotassium salt | | | | | | | | | | |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate

classifications.

| CWA (Clean Water Act) | Not applicable |
|---|----------------|
| Clean Air Act | Not applicable |
| OSHA - Occupational Safety and Health Administration | Not applicable |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

| California Proposition 65 | This product does not contain any Proposition 65 chemicals. |
|--|---|
| U.S. State Right-to-Know Regulations | Not applicable |
| U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant | N N N |
| U.S. Department of Homeland Security | This product does not contain any DHS chemicals. |
| Other International Regulations | |
| Mexico - Grade | No information available |

Authorisation/Restrictions according to EU REACH

Not applicable

| Component | CAS No | REACH (1907/2006) - Annex XIV - Substances Subject to Authorization | U U | REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC) |
|---|----------|---|-----|---|
| 1,2-Benzenedicarboxylic acid, monopotassium salt | 877-24-7 | - | - | - |

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

| Component | CAS No | OECD HPV | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|---|----------|----------------|---------------------------------|------------------------------|--|
| 1,2-Benzenedicarboxylic acid, monopotassium salt | 877-24-7 | Not applicable | Not applicable | Not applicable | Not applicable |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

| Component | CAS No | Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification | (2012/18/EC) - | Rotterdam Convention (PIC) | Basel Convention (Hazardous Waste) |
|---|----------|---|----------------|-------------------------------|---------------------------------------|
| 1,2-Benzenedicarboxylic acid, monopotassium salt | 877-24-7 | Not applicable | Not applicable | Not applicable | Not applicable |

16. Other information

Prepared By

Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com

| Creation Date | 30-Oct-2009 |
|------------------|--|
| Revision Date | 27-Mar-2024 |
| Print Date | 27-Mar-2024 |
| Revision Summary | New emergency telephone response service provider. |

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS