



ISO 9001 Quality System Certified Organization

MANUFACTURER & EXPORTER OF LABORATORY CHEMICALS AND OILS

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 www.ultrapurelab.com

MATERIAL SAFETY DATA SHEET (MSDS) SDS/MSDS

1. Identification

Product Name : Potassium hydrogen phthalate AR

CAS No 877-24-7

Synonyms Potassium acid phthalate; Potassium biphthalate

Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet

Emergency Telephone Number For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

Company

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

3. Composition/Information on Ingredients

Component CAS No Weight % 1,2-Benzenedicarboxylic acid, monopotassium salt 877-24-7 >95

4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if irritation persists. 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 vomiting. Get medical attention. Most important symptoms and effects

No information available. Notes to Physician Treat symptomatically

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 No information available

Method - No information available

Autoignition Temperature No information available

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Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge 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



6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

Avoid dust

formation. Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological

Information.

Health

1

Flammability

1

Instability

0

Physical hazards N/A

Potassium hydrogen phthalate Revision Date 24-Dec-2021 Methods for Containment and Clean Up

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

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. Exposure controls / personal protection

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.



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9. Physical and chemical properties

Physical State Solid

Appearance White

Odor Odorless

Odor Threshold No information available

pH 3.8-4.0 5% aq.sol

Melting Point/Range 295 - 300 °C / 563 - 572 °F

Boiling Point/Range No information available

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available

Lower No data available

Vapor Pressure No information available

Vapor Density Not applicable

Specific Gravity No information available

Solubility Slightly soluble in water

Partition coefficient; n-octanol/water No data available

Autoignition Temperature No information available

Decomposition Temperature No information available

Viscosity Not applicable

Molecular Formula C₈ H₅ K O₄

Molecular Weight 204.22



10. Stability and reactivity

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. Hygiene

Measures Handle in accordance with good industrial hygiene and safety practice.

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

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Acute Toxicity

Product 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

Products

No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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-Benzenedicarboxylic acid,

monopotassium salt

877-24-7 Not listed Not listed Not listed Not listed Not listed Mutagenic Effects No information available

Reproductive Effects No information available. Developmental Effects No information available.

Teratogenicity No information available. STOT - single exposure None known

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and delayed

No information available

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

12. Ecological information

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.

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT Not regulated

TDG Not regulated

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IATA 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 RegulatoryFlags1,2-Benzenedicarboxylic acid,
monopotassium salt

877-24-7 X ACTIVE - Legend:

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

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export 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 IECSCKECL1,2-Benzenedicarboxylic acid,
monopotassium salt

877-24-7 X - 212-889-4 X X X X XKE-02310KECL - NIER number or KE number

(<http://ncis.nier.go.kr/en/main.do>)

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

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): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant 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

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

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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 Component CAS No Seveso III
Directive

(2012/18/EC) -

Qualifying Quantities

for Major Accident

Notification

Seveso III Directive

(2012/18/EC) -

Qualifying Quantities

for Safety Report

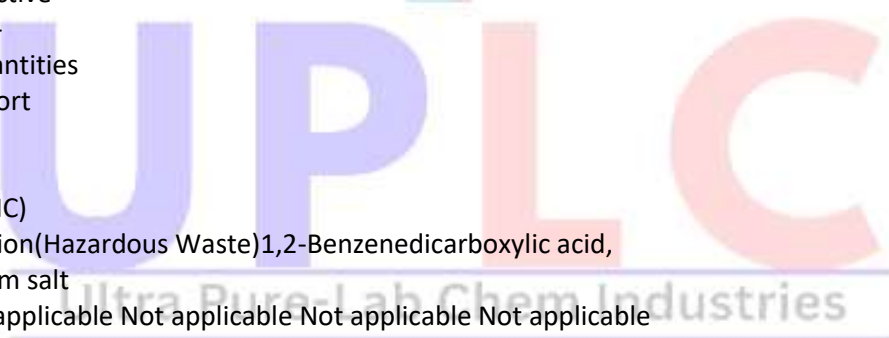
Requirements

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

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