

Material Safety Data Sheets

1. IDENTIFICATION

Product Name	Potassium hydrogen phthalate
Other Names	Potassium biphthalate; phthalic acid, dipotassium salt.; Phthalic acid monopotassium salt
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	$C_8H_5KO_4$
Chemical Name	No Data Available
Product Description	No Data Available
Company	Arman sina.co
Contact Information	info@armansina.com www.armansina.com

2. HAZARD IDENTIFICATION

Hazard Categories	This substance is classified as not hazardous according to regulation 29 CFR 1910.1200 (OSHA HCS)
Signal Word	No Data Available
Hazard Statements	No Data Available
Precautionary Statements	No Data Available
symbol	No Data Available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Potassium hydrogen phthalate	$C_8H_5KO_4$	877-24-7	100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.
Eye	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin	After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately. In case of skin reactions, consult a physician.
Inhaled	Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.
Advice to Doctor	Consult a doctor in case of discomfort showing the SDS for the product.

5. FIRE FIGHTING MEASURES

General Measures	Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use water spray/stream to protect personnel and to cool endangered containers. in case of fire: Evacuate area.
Flammability Conditions	No Data Available
Extinguishing Media	The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings..
Fire and Explosion Hazard	No Data Available
Hazardous Products of Combustion	In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO ₂)
Special Fire Fighting Instructions	DO NOT fight fire when fire reaches explosives. Protective equipment and precautions for firefighters Wear a self-contained breathing apparatus and chemical protective clothing.
Personal Protective Equipment	No Data Available
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Clear spills immediately.
Clean Up Procedures	Spilled product must never be returned to the original container for recycling. Clean contaminated objects and areas thoroughly observing environmental regulations. Collect in closed and suitable containers for disposal.
Containment	No Data Available
Decontamination	No Data Available
Environmental Precautionary Measures	Do not allow to enter into surface water or drains.
Evacuation Criteria	No Data Available
Personal Precautionary Measures	Avoid generation of dust.

7. HANDLING AND STORAGE

Handling	All work processes must always be designed so that the following is as low as possible: Inhalation skin contact Eye contact If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Keep away from: Oxidising agent
Storage	Recommended storage temperature: Ambient temperature . Keep container tightly closed and in a well-ventilated place.
Container	Keep container tightly closed and in a well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.
Exposure Limits	No information available.
Biological Limits	No information available.
Engineering Measures	Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.
Personal Protection Equipment	Wear suitable protective clothing. When handling with chemical substances, protective clothing must be worn. Eye/face protection :Eye glasses with side protection Skin protection: Wear suitable gloves. When handling with chemical substances, protective gloves must be worn. In the case of wanting use the gloves again, clean them before taking off and air them well. Check leak tightness/impermeability prior to use. By short-term hand contact Suitable material: NBR (Nitrile rubber) Thickness of the glove material: 0,12 mm Breakthrough time (maximum wearing time): > 480 min By long-term hand contact Suitable material: NBR (Nitrile rubber) Thickness of the glove material: 0,38 mm Breakthrough time (maximum wearing time): > 480 min

Special Hazards Precautions	No Data Available
Work Hygienic Practices	No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	No Data Available
Odour	No Data Available
Colour	White
pH	4 (50 g/l; H ₂ O; 20 °C)
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	No Data Available
Melting Point	295-300 °C
Freezing Point	No Data Available
Solubility	Solubility in water: 80 g/l (20 °C)
Specific Gravity	No Data Available
Flash Point	No information available.
Auto Ignition Temp	No Data Available
Evaporation Rate	No information available.
Bulk Density	1.64 g/cm ³ (20 ° C)
Corrosion Rate	No Data Available
Decomposition Temperature	295-300 ° C (1013 hPa)
Density	1.64 g/cm ³ (20 °C)
Specific Heat	No Data Available
Molecular Weight	204.22 g/mol
Net Propellant Weight	No Data Available
Octanol Water Coefficient	1.415 (20 ° C; calculated)
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.

Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	No information available.
Reactions That Release Gases or Vapours	No information available.
Release of Invisible Flammable Vapours and Gases	No information available. No information available.

10. STABILITY AND REACTIVITY

General Information	No Data Available
Chemical Stability	The product is chemically stable under standard ambient conditions (room temperature) .
Conditions to Avoid	No Data Available
Materials to Avoid	No Data Available
Hazardous Decomposition Products	No Data Available
Hazardous Polymerisation	No Data Available

11. TOXICOLOGICAL INFORMATION

General Information	No Data Available .
Acute	Acute oral toxicity: LD50: < 3200 mg/kg - Rat - (RTECS) Acute dermal toxicity: no data available Acute inhalation toxicity: no data available

12. ECOLOGICAL INFORMATION

Ecotoxicity	No Data Available
Persistence/Degradability	No Data Available
Mobility	No Data Available
Environmental Fate	No Data Available
Bioaccumulation Potential	Partition coefficient: n-octanol/water: 1.415 (20 ° C; berechnet)
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Appropriate disposal / Product Dispose according to legislation. Consult the appropriate local waste disposal expert about waste disposal. The waste is to be kept separate from other types of waste until its disposal. Waste code product: no data available Appropriate disposal / Package
Special Precautions for Land Fill	Dispose according to legislation. Handle contaminated packages in the same way as the substance itself.

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name	Potassium hydrogen phthalate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
EPG	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

Sea Transport

Proper Shipping Name	Potassium hydrogen phthalate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available

Marine Pollutant	No
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Air Transport

Proper Shipping Name	Potassium hydrogen phthalate
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

15. OTHER INFORMATION

Revision

2

Key/Legend

< Less Than

> Greater Than

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO₂ Carbon Dioxide

COD Chemical Oxygen Demand

deg C (° C) Degrees Celcius

deg F (° F) Degrees Farenheit

g Grams

g/cm³ Grams per Cubic Centimetre

g/l Grams per Litre

HSNO Hazardous Substance and New Organism

IDLH Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH₂O Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

lb Pound

LC₅₀ LC stands for lethal concentration. LC₅₀ is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

LD₅₀ LD stands for Lethal Dose. LD₅₀ is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

ltr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH₂O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

OECD Organisation for Economic Co-operation and Development

Oz Ounce

PEL Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

R Rankine

RCP Reciprocal Calculation Procedure

STEL Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

TWA Time Weighted Average

ug/24H Micrograms per 24 Hours

UN United Nations

wt Weight