



Material Safety Data Sheets

1. IDENTIFICATION

Product Name Di-sodium hydrogen phosphate dihydrate

Other Names Disodium phosphate dihydrate; Sodium phosphate dibasic dihydrate Uses

water softening treatment; adjust pH; detergents and cleaning agents

Chemical Family No Data Available Na₂HPO₄ 2H₂O **Chemical Formula**

Chemical Name

Product Description No Data Available

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2. HAZARD IDENTIFICATION

Hazard Categories Irritant

No Data Available Signal Word

No Data Available **Hazard Statements**

Precautionary Statements No Data Available

symbol



3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Barium chloride dihydrate	Na ₂ HPO ₄ 2H ₂ O	10028-24-7	>=90.00

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 DO NOT fight fire when fire reaches explosives.

Hazardous Products of

Combustion

In case of fire may be liberated: Phosphorus oxides

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

Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Container Keep only in the original container or packaging

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No Data Available

Exposure Limits No Data Available
Biological Limits No Data 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

No Data AvaiWear 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 to use the gloves again, clean them before taking off and

air them well. Check leak tightness/impermeability prior to use.lable

Special Hazards Precaustions No Data Available

Work Hygienic Practices No Data Available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid
Appearance powder

Odour no data available

Colour white

pH 9.1-9.4 (50 g/l; H2O; 20 °C)

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data Available

Melting Point 92.5 °C

Freezing Point No Data Available

Solubility Solubility in water: 93 g/l (20 °C)

Specific Gravity No Data Available

Flash Point No information available.

Auto Ignition Temp No information available.

Evaporation Rate No information available.

Bulk Density 2.1 g/cm3 (20 °C) **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available **Density** 2.1 g/cm3 (20 °C) **Specific Heat** No Data Available **Molecular Weight** 177.99 g/mol **Net Propellant Weight** No Data Available **Octanol Water Coefficient** -5.8 (20 °C; calculated) **Particle Size** No Data Available **Partition Coefficient** No Data Available Saturated Vapour Concentration No Data Available No Data Available **Vapour Temperature** No Data Available Viscosity

Additional Characteristics

Potential for Dust Explosion
Fast or Intensely Burning

No information available
No information available

Characteristics

Volatile Percent

VOC Volume

Flame Propagation or Burning No information available.

Rate of Solid Materials

Non-Flammables That Could

No information available.

Contribute Unusual Hazards to a

nitiate or No information available.

No Data Available

No Data Available

Properties That May Initiate or Contribute to Fire Intensity

 $\label{lem:Release Gases of No information available.}$ Reactions That Release Gases of No information available.

Vapours

Pologgo of Invisible Flammable No information available

Release of Invisible Flammable No information available. Vapours and Gases 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 further relevant information available.

Materials to Avoid No Data Available

Hazardous Decomposition

Products

Not determined

Hazardous Polymerisation

Will not occur.

11. TOXICOLOGICAL INFORMATION

General Information No Data Available

Acute

Acute oral toxicity: LD50: > 17000 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
No Data Available
Environmental Fate
No Data Available

Bioaccumulation Potential No Data Available
Environmental Impact No Data Available

13. DISPOSAL CONSIDERATIONS

General Information No Data Available

Special Precautions for Land Fill No Data Available

14. TRANSPORT INFORMATION

Land Transport

Proper Shipping Name Di-sodium hydrogen phosphate dihydrate

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 Di-sodium hydrogen phosphate dihydrate

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

Air Transport

 Proper Shipping Name
 Di-sodium hydrogen phosphate dihydrate

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

No Data Available

15. OTHER INFORMATION

Revision 3 < Less Than > Greater Than Key/Legend 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/I 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 **Ib 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. Itr 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** 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