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MATERIAL SAFETY DATA SHEET CATALOG #2177

SODIUM PHOSPHATE, DIBASIC for solid (crystalline) Na_2HPO_4

PRODUCT INFORMATION

TRADE/CHEMICAL NAME: Sodium Phosphate, Dibasic, 98+%
CHEMICAL FAMILY: Sodium Phosphates

COMPOSITION / INFORMATION ON COMPONENTS

COMPONENT NAME: Sodium Phosphates
CAS NUMBER: 7558-79-4
MOLECULAR WEIGHT: 141.96

HAZARDS IDENTIFICATION

BREATHING: May cause some degree of respiratory tract irritation.
SKIN CONTACT: May cause skin irritation.
EYE CONTACT: May cause eye irritation.
INGESTION: May be harmful if swallowed.
LONG TERM HEALTH EFFECTS: Not known.
CONDITIONS AGGRAVATED BY EXPOSURE: Not known.

FIRST AID MEASURES

BREATHING: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
SKIN: Wash with soap and water. Get medical attention if irritation develops or persists.
EYE: Immediately flush eyes with plenty of water for at least 15 minutes, holding eyelids apart. Get medical attention if irritation or other symptoms occur.
SWALLOWING: Get immediate medical attention.

FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media appropriate to surrounding fire conditions.
SPECIAL FIREFIGHTING PROCEDURES: Use self-contained breathing apparatus and wear full protective clothing and gear.
UNUSUAL FIRE & EXPLOSION HAZARDS: Emits toxic fumes under fire conditions.
SENSITIVITY TO EXPLOSION: Noncombustible.

ACCIDENTAL RELEASE MEASURES

GENERAL: Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves when attempting to clean a spill. Sweep up, place in a bag, and hold for waste disposal.

HANDLING AND STORAGE

HANDLING: Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, and other protective clothing. Have safety shower and eye bath accessible. Mechanical exhaust required. Do not breathe in dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
STORAGE: Keep container tightly closed when not in use. Store in a cool, dry place. Hygroscopic.

EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LEVELS: None established.
ENGINEERING CONTROLS: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
RESPIRATORY PROTECTION: For conditions of use where exposure to the dust is apparent, a dust/mist respirator (NIOSH approved) may be worn. For emergencies, a self-contained breathing apparatus may be necessary.
EYE/FACE PROTECTION: Use chemical safety goggles. No contact lenses! Maintain eye wash fountain and quick-drench facilities in the area.
SKIN PROTECTION: Wear protective gloves and body-covering clothing.

PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	White granular powder
ODOR:	None
BOILING POINT:	N/A
VAPOR DENSITY:	4.9
SOLUBILITY IN WATER:	Soluble in water
MELTING POINT:	240° C converts to $Na_4P_2O_7$

STABILITY AND REACTIVITY

STABLE: Stable under ordinary conditions of use and storage.
INCOMPATIBILITY: Strong acids.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Nature of decomposition products unknown.

WASTE DISPOSAL

SMALL QUANTITIES: Cautiously add to a large stirred excess of water. Adjust the pH to neutral, separate any insoluble solids or liquids, and package them for hazardous waste disposal. Flush the aqueous solution down the drain with plenty of water. The hydrolysis and neutralization reactions may generate heat and fumes which can be controlled by the rate of addition. Dispose of in accordance with all federal, state, and local regulations.

TRANSPORT INFORMATION

DOT SHIPPING NAME: ORM-E.

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