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Material Safety Data Sheet

From: Avantor Performance Materials, Inc. Saucon Valley Plaza 3477 Corporate Parkway Suite #200 Center Valley, PA 18034





24 Hour Emergency Telephone: 908-859-2151 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 703-527-3887

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service, 1-855-AVANTOR (855-282-6867) for assistance.

POTASSIUM PHOSPHATE DIBASIC ANHYDROUS

1. Product Identification

Synonyms: Potassium hydrogen phosphate; Potassium phosphate dibasic anhydrous; Phosphoric acid,

dipotassium salt; Dipotassium hydrogen phosphate

CAS No.: 7758-11-4 Molecular Weight: 174.18 Chemical Formula: K2HPO4

Product Codes:

J.T. Baker: 3250, 3251, 3252, 3254, 3257, 4012

Macron: 6917, 7080, 7092, 7295, 7787

2. Composition/Information on Ingredients

| Ingredient | CAS No | Percent | Hazardous |
|---------------------------------------|-----------|-----------|-----------|
| | | | |
| Potassium Phosphate Dibasic Anhydrous | 7758-11-4 | 98 - 100% | Yes |

3. Hazards Identification

Emergency Overview

CAUTION! MAY BE HARMFUL IF SWALLOWED.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight Flammability Rating: 0 - None Reactivity Rating: 0 - None Contact Rating: 0 - None

Lab Protective Equip: GOGGLES; LAB COAT Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Not expected to be a health hazard.

Ingestion:

Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Such effects, however, have occurred. Symptoms may include vomiting, lethargy, diarrhea, blood chemistry effects, cardiac effects and central nervous system effects. The toxicity of phosphates is because of their ability to sequester calcium. Acute potassium intoxication by mouth is rare because large single doses usually induce vomiting and because in the absence of pre-existing kidney damage, potassium is rapidly excreted. Potassium poisoning can result in heart effects, change in respiration rate, tingling in the extremities, heaviness in the limbs, nausea and diarrhea.

Skin Contact:

No adverse effects expected.

Eye Contact:

No adverse effects expected but dust may cause mechanical irritation.

Chronic Exposure:

May sequester calcium and cause calcium phosphate deposits in the kidneys.

Aggravation of Pre-existing Conditions:

Persons with impaired kidney function may be more susceptible to the effects of the substance.

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention for any breathing difficulty.

Ingestion:

If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Skin Contact:

Wash exposed area with soap and water. Get medical advice if irritation develops.

Eye Contact:

Wash thoroughly with running water. Get medical advice if irritation develops.

5. Fire Fighting Measures

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator.

WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Safety glasses. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Deliquescent white crystals or powder.

Odor:

Odorless.

Solubility:

150g/100g cold water

Specific Gravity:

No information found.

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

Not applicable.

Melting Point:

> 465C (> 869F)

Vapor Density (Air=1):

No information found.

Vapor Pressure (mm Hg):

No information found.

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage. Slightly hygroscopic.

Hazardous Decomposition Products:

Phosphorus oxides may form when heated to decomposition.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

No incompatibility data found.

Conditions to Avoid:

No information found.

11. Toxicological Information

No LD50/LC50 information found relating to normal routes of occupational exposure.

| \Cancer Lists\ | | | | |
|-----------------------------|----------------|-------------|---------------|--|
| | NTP Carcinogen | | | |
| Ingredient | Known | Anticipated | IARC Category | |
| Potassium Phosphate Dibasic | No | No | None | |

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

| \Chemical Inventory Status - Part 1\ | | | | |
|---|--------|-----|-----|-----------|
| Ingredient | | | | Australia |
| | | | | |
| Potassium Phosphate Dibasic Anhydrous (7758-11-4) | Yes | Yes | Yes | Yes |
| \Chemical Inventory Status - Part 2\ | | | | |
| (chemical inventory status have 2) | Canada | | | |

| Ingredient | Korea | DSL | NDSL | Phil. |
|---|-------|--------|---------|-----------|
| Potassium Phosphate Dibasic Anhydrous (7758-11-4) | Yes | Yes | No | |
| \Federal, State & International Regulat -SAR | | | | 313 |
| Ingredient RQ | | | | cal Catg. |
| Potassium Phosphate Dibasic Anhydrous No (7758-11-4) | | | | No |
| \Federal, State & International Regulat | | • | TSC | |
| Ingredient CERC | CLA : | 261.33 | 8(c | 1) |
| Potassium Phosphate Dibasic Anhydrous No (7758-11-4) | | No | No | |
| Chemical Weapons Convention: No TSCA 12(b): | No | CDTA: | No | |

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

Reactivity: No

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Chronic: No Fire: No Pressure: No

16. Other Information

SARA 311/312: Acute: Yes

NFPA Ratings: Health: 1 Flammability: 0 Reactivity: 0

(Pure / Solid)

Label Hazard Warning:

CAUTION! MAY BE HARMFUL IF SWALLOWED.

Label Precautions:

Wash thoroughly after handling.

Label First Aid:

If swallowed, give several glasses of water to drink to dilute. If large amounts were swallowed or symptoms occur, get medical advice. Never give anything by mouth to an unconscious person.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

Disclaimer:

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Prepared by: Environmental Health & Safety