



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT IDENTIFICATION

Product Name : **Vital<sup>®</sup>**  
Pesticide Class : Fungicide  
EPA Registration : 42519-24  
EPA Est. No. : 42519-ISR-1  
Synonyms : Potassium phosphite

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

#### ACTIVE INGREDIENT

Chemical Name : Potassium phosphite  
Chemical Family : Phosphorous acid, salt  
Formula :  $K_2HPO_3 + KH_2PO_3$   
Molecular Weight : 158.17 + 120.07

Component	CAS Registry	Wt%
Dipotassium phosphite	13492-26-7	} 50%
Monopotassium phosphite	13977-65-6	

### 3. PHYSICAL DATA

Appearance : Transparent liquid  
Color : None  
Odor : None  
Density : 1.45 - 1.47  
Melting Point : NA (Not applicable)  
Boiling Point : Of water  
Solubility in Water (% by Wt.) : Miscible  
pH : 6 - 6.5  
Percent Volatiles (by volume) : NA  
Vapor Pressure/Density : Of water  
Evaporation Rate (n-BuAc = 1) : Of water  
Viscosity : 5.81 @ 20°C  
3.36 @ 40°C

### 4. FIRE AND EXPLOSION DATA

Flammability : Not flammable  
Combustion : Not combustible  
Flashpoint and Method : NA  
Flammable Limits : NA  
Autoignition Temperature : NA  
Extinguishing Media : NA  
Special Fire Fighting Procedures: NA  
Unusual Fire and Explosion Hazard: Hazardous with oxidizing materials.

### 5. HEALTH HAZARD INFORMATION

#### Acute Toxicological Data :

Oral Toxicity : LD<sub>50</sub> (rat) >5000 mg/kg  
Dermal Toxicity : LD<sub>50</sub> (rat) >4000 mg/kg  
Inhalation Toxicity : LC<sub>50</sub> (rat) >5.05 mg/l  
Eye Irritation : Mild irritant  
Skin Irritation : Not irritant  
Dermal Sensitization : Not a sensitizer

#### Emergency First Aid Procedures:

**Inhalation:** Remove victim from exposure by moving to an area of fresh air. If breathing is difficult or absent, send for immediate medical attention.

**Ingestion:** Call poison control center or doctor immediately for treatment advice.  
Have person sip a glass of water if able to swallow.  
Do not induce vomiting unless told to do so by the poison control center or doctor.  
Do not give anything by mouth to an unconscious person.

**Eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes.  
Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
Call a poison control center or doctor for treatment advice.

**Skin:** Rinse skin immediately with plenty of water for 15-20 minutes.  
Call a poison control center or doctor for treatment advice.

### 6. REACTIVITY DATA

**Stability:** The product is stable  
**Incompatibility:** The product is incompatible with oxidizing materials.  
**Hazardous Decomposition Products:** NA  
**Hazardous Polymerization:** NA

## 7. SPILL OR LEAK PROCEDURE

**Steps to be Taken if Material is Released or spilled:** Stop leak if possible. Contain product with an inert diking material. Vacuum up as much as possible. Place reclaimed product in a closed and properly labeled waste drum. Store drum in separate area until proper disposal. Flush residue with water. Wash thoroughly after handling.

**Waste Disposal Method:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If spilled, flush with water.

## 8. SPECIAL PROTECTION INFORMATION

**Eye Protection:** Wear safety goggles while handling the product.

**Gloves:** Wear waterproof gloves while handling the product.

**Other Protective Equipment:** Wear long-sleeved shirt and long pants and shoes plus socks.

## 9. SPECIAL PRECAUTIONS

**Precautionary Labeling:** Keep out of reach of children.

**Storage and Disposal:** Store in a dry, cool place. Keep the product in the original container, away from food, animal foodstuffs and out of reach of children. Store the product in its original package in a safe place. Keep out of reach of children and unauthorized persons.

Separate from chlorates, nitrates and other oxidizing materials. Do not reuse empty container. Wash empty packages three times with water and pour the washing water to the tank sprayer. Make holes in the bottom of the empty packages and bury them in the soil far away from water sources.

Dispose of empty package in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## 10. ADDITIONAL INFORMATION

### TRANSPORTATION INFORMATION

Transportation classification:

Not classified

### ENVIRONMENTAL HAZARDS

Keep children and domestic animals off treated areas until the product has been washed into the soil. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water by cleaning of equipment or disposal of waste.

The information contained herein is applicable solely to the indicated product, and does not relate to any other use of this product as described. Its use is intended by persons having technical skill and at their own discretion and risk. The information has been developed from sources reliable. This information is furnished without warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose is made with respect to the information contained herein.

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