

## MATERIAL SAFETY DATA SHEET

**PRODUCT NAME: Dipotassium Phosphate**

**GEN-DI5000**

### SECTION 01: PRODUCT INFORMATION AND COMPANY INFORMATION

**MANUFACTURER:** Same as above  
**PREPARED BY:** Production Department  
**VERSION DATE:** 24-Jan-14  
**TELEPHONE NO.:** (519) 451-1614  
**EMERGENCY PHONE NO.:** (613) 996-6666  
**CHEMICAL FAMILY:** Not Available **CHEMICAL FORMULA:** Not Applicable  
**MOLECULAR WEIGHT:** Not Applicable **MATERIAL USE:** Chemical intermediate  
**SYNONYMS:** DKP, Dibasic, Potassium Phosphate, Di potassium Orthophosphate

### SECTION 02: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	Conc. Approx. %	C.A.S. #	LD/50 (RTE/SPEC)	LC/50 (RTE/SPEC)	TLV
Water	Balance	7732-18-5	N.Av.	N.Av.	N.Av.
Dipotassium phosphate	40-60	7758-11-4	N.Av.	N.Av.	N.Av.

### SECTION 03: HAZARD IDENTIFICATION

#### ROUTE OF ENTRY

**Eyes:** May irritate eyes.  
**Skin:** May cause skin irritation. Unlikely to be absorbed through skin.  
**Inhalation:** Mists may cause irritation of upper respiratory tract. Symptoms may include coughing, shortness of breath and nausea  
**Ingestion:** If large amounts of the product are ingested, symptoms may include gastrointestinal irritation, nausea, vomiting and diarrhea.

### SECTION 04: FIRSTAID

**Skin Contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse.  
**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.  
**Inhalation, Acute:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.  
**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to physician:** Treatment based on sound judgment of physician and individual reactions of patient.

**SECTION 05: FIRE EXPLOSION HAZARD AND FIRE FIGHTING MEASURES**

<b>FLAMMABLE?</b>	No
<b>IF YES, UNDER WHICH CONDITIONS?</b>	
<b>FLASH POINT (TCC) (C):</b>	Not Available
<b>FLAMMABLE LIMITS:</b>	<b>LEL(% BY VOL.):</b> Not Available <b>UEL(% BY VOL.):</b> Not Available
<b>AUTO IGNITION TEMPERATURE (C)</b>	Not Available
<b>EXTINGUISHING MEDIA</b>	Use extinguishing media appropriate for surrounding fire. Fire fighters should wear full protective clothing, including self-contained breathing equipment.
<b>SPECIAL PROCEDURES:</b>	This product is not considered to be flammable.
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	Oxides of phosphorus. Oxides of potassium
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS</b>	Not Available
<b>SENSITIVITY TO STATIC DISCHARGE</b>	Not Available
<b>SENSITIVITY TO MECHANICAL IMPACT:</b>	Not Available

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

**Leak and Spill Procedure:** Personal Precautionary Measures: Wear appropriate protective equipment.  
Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.  
Procedure for Clean Up: Absorb with an inert dry material and place in an appropriate waste disposal container. Scoop up or vacuum up and place in an appropriate closed container.  
Clean up residual material by washing area with water and detergent. **DO NOT RETURN MATERIAL TO ITS ORIGINAL CONTAINER.**

**SECTION 07: HANDLING AND STORAGE****Handling Procedures and Storage Requirements**

Handling: Keep the containers closed when not in use. Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Do not consume food, drink or smoke while handling this material. Wash thoroughly after handling.  
Storage: Store in a cool, dry, well ventilated area. Store in accordance with good industrial practices.

**SECTION 08: PERSONAL PROTECTIVE EQUIPMENT / EXPOSURE CONTROLS**

<b>GLOVES/TYPE:</b>	Appropriate chemical resistant gloves should be worn.
<b>RESPIRATOR/TYPE:</b>	If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator. Air-purifying (half-mask/full-face) respirator with cartridges/canister approved for use against organic vapors.
<b>EYE/TYPE:</b>	Safety glasses with side shields.
<b>OTHER/TYPE:</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location. Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.
<b>ENGINEERING CONTROL</b>	Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL STATE/APPEARANCE:</b>	Liquid		
<b>ODOUR:</b>	Odourless	<b>ODOUR THRESHOLD:</b>	N. Av.
<b>VAPOUR PRESSURE (mm Hg @ 20C):</b>	0.1 - 0 mmHg	<b>VAPOUR DENSITY (Air=1):</b>	N. Av.
<b>EVAPORATION RATE (Ether = 1):</b>	N. Av.	<b>SPECIFIC GRAVITY:</b>	1.54 @ 15 C
<b>BOILING POINT (C):</b>	106 °C	<b>FREEZING POINT (C)</b>	N. Av.
<b>Ph (% SOLUTION):</b>	10 - 10.3 @ wt/wt%	<b>% VOLATILE (WT):</b>	N. Av.
<b>SOLUBILITY IN WATER (% W/W)</b>	Soluble.		

**SECTION 10: STABILITY AND REACTIVITY**

**CHEMICALLY STABLE?** Stable

**IF NO, UNDER WHICH CONDITIONS?**

**INCOMPATIBILITY WITH OTHER SUBSTANCES** Yes

**IF YES, WITH WHICH ONES:** Corrosive to metals.

**SPECIAL REACTIVITY AND UNDER WHAT CONDITIONS**

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of phosphorus. Oxides of potassium

**SECTION 11: TOXICOLOGICAL INFORMATION**

**EXPOSURE LIMIT OF MATERIAL**

**LC 50 OF MATERIAL, SPECIES AND ROUTE**

**LD 50 OF MATERIAL, SPECIES AND ROUTE** >4810 mg/kg

**CARCINOGENICITY OF MATERIAL**

**REPRODUCTIVE EFFECTS:**

**IRRITANCY OF MATERIAL**

**SENSITIZING CAPABILITY OF MATERIAL**

**SYNERGISTIC MATERIALS**

**SECTION 12: ECOLOGICAL INFORMATION**

**AQUATIC TOXICITY**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL:** Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.  
Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

**SECTION 14: TRANSPORT INFORMATION**

**TDG CLASSIFICATION** Class 8, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.(Dipotassium phosphate)

**UN NUMBER:** 3266

**PACKING GROUP:**

**Special Provisions for Transport**

**SECTION 15: REGULATORY INFORMATION**

**WHMIS CLASSIFICATION** E  
E CORROSIVE MATERIAL

**SECTION 16: OTHER INFORMATION**

**ABBREVIATIONS USED:** N.Av. = Not Available  
N.App. / N.Ap. = Not Applicable

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