SAFETY DATA SHEET

Issue date: 19/11/2015

1. Identification of the substance or mixture and of the supplier

Product:	**Potassium phosphite**
Chemical Name:	Potassium salts of phosphorous (phosphonic) acid
Synonyms:	Potassium phosphonates
Commercial product names:	Benon, Benon 50 SL, Canon, Canon 50 SL, Stamina LS 50
Recommended use:	Systemic Fungicide
Supplier:	Luxembourg Industries Ltd. 27 Hamered St., Tel Aviv, 6812509 ISRAEL
Emergency phone number:	+972 3 796 4300

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2. Hazards identification

Classification of the substance or mixture

Classification of the product according to the Global Harmonized System of Classification and Labelling of Chemicals (GHS).

Hazard classification: Acute toxicity, Dermal Category 5

Label elements: Pictogram: No symbol Signal word: Warning

Hazard statement(s): H313 May be harmful in contact with skin.

Precautionary statement(s):

Prevention: No prevention statements.

Response: P312 Call a POISON CENTER/doctor/physician if you feel unwell.

Storage: No storage statements.

Disposal: No disposal statements.

Other hazards: Not known.

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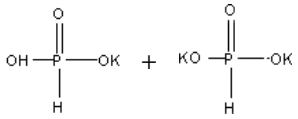
3. Information on ingredients contributing to hazard

Chemical name:	Mono- and Di-Potassium salts of phosphorous (phosphonic) acid
Common name:	Potassium phosphite
Chemical formula:	KH_2PO_3 + K_2HPO_3
Structural formula:	
CAS No.:	13977-65-6 + 13492-26-7
Content:	485-515 g/L (phosphorous acid equivalent)

4. First-aid measures

Call a physician immediately in all cases of suspected poisoning.

Ingestion: Call a 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 a poison control center or doctor.
Never give anything by mouth to an unconscious person.

Inhalation: Remove victim from exposure by moving to an area of fresh air.
If breathing is difficult or absent, send for immediate medical attention.
If breathing has stopped, artificial respiration should be started by qualified personnel.
Call a poison control center or doctor for further treatment advice.

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. If eye irritation persists, call a poison control center or doctor for treatment advice.

Skin: Take off contaminated clothing and wash before reuse.
Rinse skin immediately with plenty of water for 15-20 minutes.
If irritation or discomfort develops, seek medical attention.

Most important symptoms and effects, both acute and delayed.

No significant health effects known, or anticipated, by any route of exposure when exposed to the product as shipped.

Indication of any immediate medical attention and special treatment needed.

No specific antidote.
In the event of an adverse response, treatment should be directed toward control of the symptoms and the clinical condition of the patient.

5. Fire-fighting measures

Suitable extinguishing media: Dry chemical, CO_2, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

Specific hazards arising from the substance or mixture: Hazardous combustion products: Phosphorous oxides.

Special protective equipment and precautions for firefighters: Clear fire area of all non-emergency personnel. Stay upwind of fire. Wear chemical protective clothing and self-contained breathing apparatus (SCBA) with positive pressure.

6. Accidental release measures

Personal precautions, protective equipment: Use personal protective equipment recommended in Section 8. Isolate the hazard area and deny entry from unnecessary and unprotected personnel.

Environmental precautions: Keep children and domestic animals off treated areas. Do not apply directly to water. Do not discharge into drains/surface waters/groundwater. Do not contaminate water by cleaning of equipment or disposal waste. Do not contaminate waters used for domestic purposes, or by wildlife, including aquatic life, or for irrigation.

Methods and materials for containment and cleaning up: Stop leak if possible. Contain spilled product with an inert diking material, such as sand. Cover the spill area with a 1:1 mixture of vermiculite and solid calcium oxide (the amount of the mixture should be at least double the size of the spill). 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.

7. Handling and storage

Precautions for safe handling: Wear suitable protective clothing. Avoid contact with skin and eyes. Keep away from excessive heat, open flames and from strong oxidizing agents. Do not eat, drink or smoke when using this product. Wash hands and exposed skin thoroughly after handling, and before eating, drinking, chewing gum, using tobacco or using the toilet.

Conditions for safe storage, including any incompatibilities:	Store in a cool place. Keep container tightly closed in a dry and well ventilated place. Damaged or leaking containers which cannot be used immediately should be transferred to suitable sound containers and properly marked. Keep away from food, drink and animal feed. Separate from chlorates, nitrates and other oxidizing materials.

8. Exposure controls / personal protection

Occupational exposure limits:	TLV (ACGIH): Not established Workplace exposure limits (WELs): Not established
Appropriate engineering controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations low. Ensure that eyewash stations and safety showers are in proximity to the work-station location.
Personal protective equipment:	Wear long-sleeved shirt and long pants and shoes plus socks. Wear waterproof gloves and safety goggles while handling the product.

9. Physical and chemical properties

Appearance:	Transparent liquid
Colour:	Colourless to blue
Odour:	Odourless
pH (1% aqueous solution):	6.0-7.0
Melting point/Freezing point:	Not applicable (the product is an aqueous solution)
Boiling point:	> 100ºC
Evaporation rate:	Not applicable
Flash point:	> 100ºC
Flammability (solid, gas):	Not applicable
Vapour pressure (25°C):	Not applicable
Vapour density:	Not available
Bulk density (20°C):	1.45-1.49 g/mL
Solubility in water (25°C):	Miscible in any proportion with water (the product is an aqueous solution)
Partition coefficient n-octanol/water:	Not applicable
Ignition temperature:	Not applicable
Decomposition temperature:	Not available
Viscosity (25°C):	5.81 cSt (@20°C), 3.36 cSt (@40°C)
Explosive properties:	The product is not explosive

10. Stability and reactivity

Reactivity:	Will react with strong oxidizers and strong reducers.
Chemical stability:	Stable at room temperature and under recommended storage and handling conditions.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	Avoid exposure to incompatible materials. Avoid exposure excessive heat or open flame.
Incompatible materials:	Strong oxidizers like potassium permanganate and strong reducers like zinc powder.
Hazardous decomposition products:	None known.

11. Toxicological information

Acute toxicity

Oral LD_{50} (rat):	>5000 mg/kg
Dermal LD_{50} (rabbit):	>4000 mg/kg
Inhalation LC_{50} (rat):	> 5.05 mg/L

Skin corrosion/irritation

Skin irritation (rabbit): Not irritant

Serious eye damage/irritation

Eye irritation (rabbit): Not irritant

Respiratory or skin sensitization

Dermal sensitization (guinea pig): Not a contact sensitizer

Germ cell mutagenicity:	No mutagenic potential
Carcinogenicity:	No carcinogenic potential
Reproductive toxicity:	No primary embryotoxic or teratogenic effects
STOT* single exposure:	Not available
STOT repeated exposure:	Not available
Aspiration hazard:	No aspiration hazard

*Specific Target Organ Toxicity

12. Ecological information

Ecotoxicity:

Birds:

Northern bobwhite LD_{50}:	> 2250 mg a.i./kg
Northern bobwhite dietary LC_{50} (5d):	> 5620 mg a.i./kg
Mallard ducks dietary LC_{50} (5d):	> 5620 mg a.i./kg

Fish:

Rainbow trout LC_{50} (96 hrs.):	> 118 mg a.i./L

Crustacean:

Daphnia magna EC_{50} (48 hrs.): > 118 mg a.i./L

Honeybees:

LD_{50}, oral (48 hrs.): > 145 µg/bee

LD_{50}, contact (48 hrs.): >207µg/bee

Persistence and degradability: Not readily biodegradable
Bioaccumulative potential: No bioaccumulative potential
Mobility in soil: Medium to low mobility in soil
Other adverse effects: Not available

13. Disposal considerations

Dispose of in accordance with applicable national, federal, state and local laws and regulations.

14. Transport information

Not regulated for transportation.

15. Regulatory information

This data sheet complies with the requirements of the Global Harmonized System of Classification and Labelling of chemicals (GHS).

16. Other information

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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