



SAFETY DATA SHEET

Dosaline Bloom

Revision Date: January 6, 2023

SECTION 1: IDENTIFICATION OF SUBSTANCE / MIXTURE

Product Name: Dosaline Bloom

Fertilizer Formula: 0 - 37 - 39

Product Type: Powder

Recommended Use: Hydroponics

Restrictions on use: N / A

Manufacturer: Future Harvest Development LTD.

Emergency Telephone Number: 250-491-0255

24 Hour Emergency Telephone Number: CANUTEC 1-613-996-6666

SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No. 1272/2008 (CLP): Not classified.

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC(DPD): Not classified.

Classification according to 29 CFR 1910.1200 (OSHA HCS): Not classified.

2.2 Label elements

Signal Word: **WARNING**



Hazard Statement(s):

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Precautionary Statement(s):**Prevention:**

P280 Wear protective gloves/eye protection/face protection.

Response:

P370 + P378 In case of fire: Use water spray or fog to extinguish.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

SECTION 3: COMPOSITION / IDENTIFICATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration	Other Names
Monopotassium Phosphate	7778-77-0	60-70%	MKP Potassium Phosphate Monobasic
Potassium Sulfate	7778-80-5	15-25%	Sulfate of Potash
Tetrapotassium Pyrophosphate	7320-34-5	<10%	TKPP

Note: There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST-AID MEASURES**4.1 Description of first aid measures**

Eye Contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention if irritation occurs.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Dusts may cause coughing and sneezing. Ingestion of large quantities may cause gastrointestinal irritation, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

N / A

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Non-combustible material.

Hazardous Thermal Decomposition Products:

Under fire - oxides of phosphorous, oxides of potassium.

5.3 Advice for firefighters

Move containers from fire area, if possible to do so without risk. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist, or gas.

Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements, or confined areas.

6.3 Methods and materials for containment and cleaning up

Pick up and place in a suitable container for reclamation or disposal, using a method that does not generate dust.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 13 for additional waste treatment information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Minimize dust generation and accumulation. Do not breathe dust. Avoid contact with skin and eyes. Wash thoroughly after handling. Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

Store and use away from heat, sparks, open flame, or any other ignition source.

Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.

Packaging Materials Recommended: Use original container.

7.3 Specific use(s):

N / A

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

N / A

8.2 Appropriate engineering controls

General ventilation is usually adequate.

Use local exhaust ventilation and enclosure, if necessary to control amount in the air.

8.3 Individual protection measures, such as personal protective equipment

General information: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Eye / Face Protection: Wear safety glasses with side shields (or goggles).

Skin / Hand Protection: Chemical resistant gloves.

Other: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation, use respiratory protection.

Hygiene Measures: Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Light brown powder.

Odour: Odorless.

Odour Threshold: Odorless.

pH: Unknown.

Initial Boiling Point / Boiling Range: > 100°C.

Flash Point: N / A

Evaporation Rate: Not volatile (butyl acetate=1).

Flammability: Not flammable.

Upper / Lower Flammability or Explosive Limits:

Vapor Pressure: 4.5X10⁻¹⁵ Pa at 25°C- Not volatile.

Vapor Density: Not volatile.

Relative Density: 1.0 at 25.1±0.5°C (water=1).

Solubility(ies):

Water Solubility: Soluble.

Partition Coefficient Octanol / Water: The product is more soluble in water; log(octanol/water)<1.

Auto-ignition Temperature: N / A

Decomposition Temperature: N / A

Viscosity: N / A

Explosive Properties: Not explosive.

Oxidizing Properties: Not oxidizer.

9.2 Other information

Melting Point / Freezing Point: N / A

VOC: Not an organic compound.

Specific Gravity: Unknown.

Miscibility: N / A

Fat solubility: N/ A

Gas group: N/ A

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

Reacts with acids and alkalis.

10.3 Possibility of hazardous reactions

Hazardous reactions are not expected, under normal conditions of storage and use.

10.4 Conditions to avoid

Heat, open flames, sparks, static discharge, heat, and other ignition sources.

10.5 Incompatible materials

Strong oxidizing agents and strong bases.

10.6 Hazardous decomposition products

N / A

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on likely routes of exposure

Ingestion: Irritating. May cause nausea, stomach pain and vomiting.

Inhalation: May cause irritation to the respiratory system.

Skin contact: Causes mild skin irritation.

Eye contact: Causes eye irritation.

11.2 Information on toxicological effects

Acute toxicity (list all possible routes of exposure).

Oral Product: LD 50.

Monopotassium Phosphate: Approximate 1,700 mg/kg (mouse).

Dermal Product: No data available.

Inhalation Product: No data available.

Repeated Dose Toxicity Product: No data available.

Skin Corrosion / Irritation Product: Causes mild skin irritation.

Serious Eye Damage / Eye Irritation Product: Causes eye irritation.

Respiratory or Skin Sensitization Product: Not a skin sensitizer.

Carcinogenicity Product: This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified. Germ cell mutagenicity.

In Vitro Product: No mutagenic components identified.

In Vivo Product: No mutagenic components identified.

Reproductive Toxicity Product: No components toxic to reproduction.

Specific Target Organ Toxicity - Single Exposure Product: None known.

Specific Target Organ Toxicity - Repeated Exposure Product: None known.

Aspiration Hazard Product: Not classified.

Other Effects: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Monopotassium Phosphate:

Toxicity to Fish: LC50/96h (Rainbow trout) > 100 mg/L

Toxicity to Crustaceans: EC50/48h (Daphnia magna) > 100 mg/L

Toxicity to Algae: EC50/75h (algae) > 100 mg/L EC50 (48h): 300 mg/L

12.2 Persistence and Degradability

Not applicable, since inorganic substance.

12.3 Bioaccumulative potential

The potential for bioaccumulation considered to be minimal.

12.4 Mobility in soil

Soil / Water Partition Coefficient (Koc): N / A

Mobility: Soluble in water.

12.5 Results of PBT and vPvB assessment

N/ A

12.6 Other adverse effects

Substances which have an unfavorable influence on the oxygen balance and can be measured using parameters such as BOD, COD, etc.: Absent

Substances Which Contribute to Eutrophication: Phosphates, 39% as P₂O₅

SECTION 13: DISPOSAL CONSIDERTATIONS

13.1 Waste treatment methods

Product: Waste must be disposed of in accordance with federal, state, provincial and local environmental control regulations.

Packing: Empty containers should be taken for local recycling, recovery, or waste disposal.

SECTION 14: TRANSPORT INFORMATION

Canadian TDG: Not Regulated.

US DOT: Not Regulated.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code.

N / A

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: Not listed.

Australia AICS: On or in compliance with the inventory.

Canada DSL Inventory List: On or in compliance with the inventory.

EINECS, ELINCS or NLP: On or in compliance with the inventory.

Japan (ENCS) List: On or in compliance with the inventory.

China Inv. Existing Chemical Substances: Not in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory.

Canada NDSL Inventory: Not in compliance with the inventory.

Philippines PICCS: On or in compliance with the inventory.

US TSCA Inventory: On or in compliance with the inventory.

New Zealand Inventory of Chemicals: On or in compliance with the inventory.

Japan ISHL Listing: On or in compliance with the inventory.

SECTION 16: OTHER INFORMATION

SDS Prepared By: Future Harvest Development LTD. Kelowna BC, Canada.

Contact Info: 250-491-0255, marketing@futureharvest.com, futureharvest.com

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