



# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT INFORMATION

**Product Identifier:** Jurassic Bloom™

**Manufacturer's Name:** Les Produits Jurassic  
**Address** : 468 rue Desjardins  
St-Colomban, Quebec, Canada  
J5K 2H1

**Tel** : 1-514-381-5252

**Chemical Family** : Inorganic salt

**Type of product end use:** Water soluble fertilizer for plants

**Emergency Phone number:** 1-613-996-6666

## 2. HAZARDS IDENTIFICATION

**Physical state:** Green odorless crystalline powder

**Emergency overview :** CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT. MAY BE HARMFUL IF SWALLOWED OR INHALED. Hydroscopic.  
Do not ingest, keep out of the reach of children,  
Seal properly after usage, store under cool dry conditions, wash thoroughly after handling.

**Route of entry :** Dermal contact, Eye contact, Inhalation, Ingestion.

**Potential acute health effects :**

Acute eye	May cause irritation.
Acute skin	May cause irritation, especially with moist skin.
Acute inhalation	May cause irritation to the respiratory tract.
Acute ingestion	May cause irritation to the digestive tract.

**Potential chronic health effects** : May sequester calcium and cause calcium phosphate deposits in the kidneys.

**Carcinogenic effects:** Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

**Mutagenic effects:** Not available.

**Teratogenic Effects:** Not available.

**Medical condition aggravated by overexposure** : Repeated or prolonged exposure to the substance can produce target organs damage.

\* See toxicological information (section 11)

### **3. COMPOSITION, INFORMATION ON INGREDIENTS**

<b>Components</b>	<b>CAS NO.</b>	<b>%</b>
Phosphoric acid, Monopotassium salt	7778-77-0	95-97

### **4. FIRST AID MEASURES**

**Eye contact** : Flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**Skin contact** : Flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

**Inhalation** : If inhaled, remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion** : *Do not induce vomiting.*

If victim is conscious and alert, give 2-3 glasses of water to drink. Seek immediate medical attention.

NOTE: Never give an unconscious person anything to drink

**Note to physician** : No specific antidote. Medical staff must contact Poison Control Center.

### **5. FIRE FIGHTING MEASURE**

**Extinguishing media** : Not combustible. Use extinguishing media appropriate to surrounding fire conditions. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

**Fire fighting procedure** : Call the fire brigade. Avoid breathing the fumes as they may be toxic. Stand upwind of the fire.

In closed stores, provide fire-fighters with self-contained breathing apparatus in positive pressure mode.

Prevent molten or dissolved material to run into drains or watercourse.

**Unusual fire and explosion hazards** : Not available

**Hazardous decomposition materials** : Emits toxic fumes of phosphorous oxides.  
(Under Fire Conditions)

**Protective equipment** : As a precaution measure. Firefighters and others exposed should wear self contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## **6. ACCIDENTAL RELEASE MEASURE**

**Evacuation procedures & personal precautions** : Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.  
Evacuate as needed to perform spill clean-up.

**After spillage / leakage procedures** : Scoop up, collect and place the product in a clean, Labeled container for re-use. The remaining product and / or material that can not be salvaged should be cautiously diluted with water and neutralized with an alkaline carbonate or slaked lime, followed by discharge into a treatment system in accordance with all local and state regulations. Take care to avoid contamination of drains and watercourses.

## **7. HANDLING AND STORAGE**

**Handling** : Avoid excessive generation of dust.

Avoid bodily contact

When handling the product avoid bodily contact and use appropriate personal protective equipment.

**Storage** : Store in a dry, cool, well-ventilated area away from incompatible materials (see "materials to avoid" in section 10). Keep containers tightly closed.

Store protected from moisture.

## **8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

**Exposure limits:** Inhalable 10 mg/m<sup>3</sup>, 8-hr TWA

**ACGIH TLV** : Inhalable 10 mg/m<sup>3</sup>, 8-hr TWA, Respirable 3 mg/m<sup>3</sup> 8-hrTWA

**OSHA PEL** : Total dust 15 mg/m<sup>3</sup> 8-hr TWA, Respirable 5 mg/m<sup>3</sup> 8-hr TWA

**Other** : NA

**Ventilation requirements** : Good general ventilation sufficient to maintain TLVTWA below 3 mg/m<sup>3</sup>, respirable particles, and 10 mg/m<sup>3</sup>, inhalable particles (ACGIH recommendation for Particles (Insoluble or poorly soluble) Not Otherwise Specified (PNOS)).

**Personal protection requirements :**Protective clothing should be selected specifically for the working place, depending on concentration and quantity of hazardous substances handled. Respiratory protection  
When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations  
Skin protection Wear appropriate protective gloves to prevent skin exposure.

**Eye /Face protection :** Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices.  
Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.  
Use chemical safety glasses with side shields or splash proof goggles. Face contact should be prevented through use of a face shield.

**Industrial hygiene :** Avoid contact with skin and eyes and inhalation of hot vapours.  
Do not eat, drink or smoke until after-work showering and changing clothes.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance :** Green crystals

**Odor :** Odorless

**Melting point/range :** 252.6°C

**Thermal decomposition :** > 253°C

**Boiling point/range :** 4000 C - Loses water and becomes metaphosphate

**Vapour pressure :** Not Available

**Bulk density :** 1.0 -1.6 ???

**Relative vapour density (air=1) :** Not Available

**Flash point :** Not applicable

**Flammable/Explosion limits :** Not Available

**Auto-ignition temperature :** Not applicable

**Solubility in water :** 230 g/l

**PH (1% water solution ???) :** 4.2-4.8

## **10.STABILITY AND REACTIVITY**

**Chemical stability :** Stable under normal temperatures and pressures.

**Incompatibility with other substances :** Aluminum, diazomethane, phosphorus.

**Reactivity, and under what conditions?** Not reported

**Hazardous Decomposition Products : Oxides of phosphorus, irritating and toxic fumes  
And gases.**

**Hazardous polymerization : Will not occur.**

## **11. TOXICOLOGICAL INFORMATION**

**Acute oral toxicity to Rat, LD50 : 4,640 mg/kg (RTECS Number: TC6615500)**

**Acute dermal toxicity to Rabbit, LD50 : > 4,640 mg/kg (RTECS Number:  
TC6615500)**

**Skin Irritation, Rabbit : Not Available**

**Eye Irritation, Rabbit : Not Available**

**Skin Sensitization, guinea pigs : Not Available**

**Ames Test, *Salmonella typhimurium* & *Escherichia coli* : Not Available**

**Long-term toxicity : Not Available**

**Carcinogenicity : Not Available**

**IARC : Not listed**

**NTP 11<sup>th</sup> Report on Carcinogens : Not listed**

**OSHA : Not listed**

## **12. ECOLOGICAL INFORMATION**

**Aquatic Toxicity : Not Available**

**Environmental Fate : When released into the soil, this material may leach into  
groundwater. When released to water, acidity may be  
readily reduced by natural water hardness minerals. The  
phosphate, however, may persist indefinitely and  
contribute to eutrophication.**

## **13. DISPOSAL CONSIDERATIONS**

**Waste disposal : Prevent discharging of waste into watercourses and  
drains. Observe all state and local environmental  
regulations regarding the proper disposal of this material.**

**EPA RCRA Hazardous waste code : Not listed**

## **14. TRANSPORT INFORMATION**

**IMDG/UN : Not regulated**

**ICAO/IATA : Not regulated**

**RID/ADR : Not regulated**

**US DOT : Not regulated**

**Canada TDG : Not regulated**

## 15 . Other information

**Hazardous Material  
Information System (U.S.A.) :**

Health	1
Fire hazard	0
Reactivity	0
Personal protection	C

**National Fire Protection  
Association (U.S.A.) :**



**References:** ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG.

**Additional information :** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### **Notice to reader**

To the best of our knowledge, the information provided in this Product Information Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Jurassic Products disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Product Information Sheet.

