# SAFETY DATA SHEET



Issue Date 29-Mar-2018 Revision Date 29-Mar-2018 Version 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name Blossom SP

Other means of identification

**SDS#** JC-048-002

Details of the supplier of the safety data sheet

**Company Name** Professional Ag Distribution Inc.

#1-6285-205st

Langley, B.C. Canada V2Y 1N7

604-427-3101

Emergency telephone number

Emergency Telephone 604-768-5602

# 2. HAZARDS IDENTIFICATION

## Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1B

# Label elements

## **Emergency Overview**

# **Danger**

### **Hazard statements**

Causes severe skin burns and eye damage May cause cancer



Appearance White Physical state Liquid Odor None

**Precautionary Statements - Prevention**Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

#### **Precautionary Statements - Response**

Specific Treatment (See Section 4 on the SDS)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

### Other Information

**Unknown Acute Toxicity** 

0% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Calcium Nitrate	13477-34-4	5-10	*
Citric Acid	77-92-9	1-5	*
Boric Acid	10043-35-3	.1-1	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

## First aid measures

**General advice** Immediate medical attention is required.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Eye contact Immediate medical attention is required. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected

area.

**Inhalation** Remove to fresh air. Call a physician or poison control center immediately. If not breathing,

give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison

control center immediately.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

## Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology

Information.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians**Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat

symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

## Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

## **Explosion data**

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. Avoid

contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

**Environmental precautions**Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Take

up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Prevent product from entering drains. Dam up. After cleaning, flush away traces

with water.

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers.

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

**Exposure Guidelines** Exposure guidelines noted for ingredient(s).

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silicon Dioxide	-	(vacated) TWA: 6 mg/m <sup>3</sup> <1%	IDLH: 3000 mg/m <sup>3</sup>
7631-86-9		Crystalline silica	TWA: 6 mg/m <sup>3</sup>
		TWA: 20 mppcf	
		: (80)/(% SiO2) mg/m <sup>3</sup> TWA	
Boric Acid	STEL: 6 mg/m <sup>3</sup> inhalable	-	-
10043-35-3	particulate matter		
	TWA: 2 mg/m <sup>3</sup> inhalable		
	particulate matter		
Sodium Molybdate Dihydrate	TWA: 0.5 mg/m <sup>3</sup> Mo respirable	TWA: 5 mg/m <sup>3</sup> Mo	IDLH: 1000 mg/m <sup>3</sup> Mo
10102-40-6	particulate matter	(vacated) TWA: 5 mg/m <sup>3</sup> Mo	_

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d

962 (11th Cir., 1992).

**Appropriate engineering controls** 

**Engineering Controls** Showers, Eyewash stations & Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Skin and body protection**Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep

away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing

and wash it before reuse. Wear suitable gloves and eye/face protection.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Physical state Liquid Appearance White

ColorWhiteOdorNone

Odor threshold No Information available

Property <u>Values</u> <u>Remarks • Method</u>

**pH** 1.5 - 2.5 **Specific Gravity** 1.265

Viscosity No Information available

Melting point/freezing point No Information available

Flash point Above 200°F

**Boiling point / boiling range**  $>= 100 \, ^{\circ}\text{C} \, / \, 212 \, ^{\circ}\text{ F} \, (at 760 \, \text{mm Hg})$ 

**Evaporation rate**No Information available **Flammability (solid, gas)**No data available

Flammability Limits in Air

Upper flammability limit:No Information availableLower flammability limit:No Information availableVapor pressureNo Information availableVapor densityNo Information available

Water solubility Complete

Partition coefficientNo Information availableAutoignition temperatureNo Information availableDecomposition temperatureNo Information available

Other Information

Density Lbs/Gal 10.55

VOC Content (%) Not Applicable

## 10. STABILITY AND REACTIVITY

## Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

#### Conditions to avoid

Exposure to air or moisture over prolonged periods.

## **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** The primary effects and toxicity of this material are due to it corrosive nature.

**Inhalation** Causes burns.

**Eye contact** Corrosive to the eyes and may cause severe damage including blindness.

**Skin Contact** The product causes burns of eyes, skin and mucous membranes.

**Ingestion** Causes burns.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium Nitrate	= 3900 mg/kg (Rat) = 302 mg/kg	-	-
13477-34-4	( Rat )		
Citric Acid	= 3000  mg/kg  (Rat) = 3  g/kg  (	-	-
77-92-9	Rat )		
Boric Acid	= 2660 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 0.16 mg/L (Rat)4 h
10043-35-3			

#### Information on toxicological effects

Symptoms No Information available.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to

eyes.

**Sensitization Germ cell mutagenicity**No Information available.
No Information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
• • • • • • • • • • • • • • • • • • • •	Acom	The second secon	1411	OSITA
Calcium Nitrate	-	Group 2A	-	X
13477-34-4				
Boric Acid	-	Group 2A	-	X
10043-35-3				

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans Group 3 -Not classifiable as a human carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No Information available.
No Information available.

**Chronic toxicity** Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects.

Target organ effectsEYES, Respiratory system.Aspiration hazardNo Information available.

### Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (inhalation-dust/mist) 27.53 mg/kg

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Calcium Nitrate	-	10000: 96 h Lepomis macrochirus	2355: 120 h Daphnia magna mg/L
13477-34-4		mg/L LC50 static	LC50
Silicon Dioxide	440: 72 h Pseudokirchneriella	5000: 96 h Brachydanio rerio mg/L	7600: 48 h Ceriodaphnia dubia mg/L
7631-86-9	subcapitata mg/L EC50	LC50 static	EC50
Citric Acid	-	1516: 96 h Lepomis macrochirus	120: 72 h Daphnia magna mg/L
77-92-9		mg/L LC50 static	EC50

Boric Acid	-	1020: 72 h Carassius auratus mg/L	115 - 153: 48 h Daphnia magna
10043-35-3		LC50 flow-through	mg/L EC50

### Persistence and degradability

No Information available.

### Bioaccumulation

No Information available.

Chemical Name	Partition coefficient
Citric Acid 77-92-9	-1.72
Boric Acid 10043-35-3	-0.757

Other adverse effects No Information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status	
Calcium Nitrate	Ignitable	
13477-34-4	Reactive	
Boric Acid	Toxic	
10043-35-3		

# 14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**DOT** Not regulated

# 15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# US Federal Regulations

### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Calcium Nitrate - 13477-34-4	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes

Fire hazard No Sudden release of pressure hazard No Reactive Hazard No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Nitrate 13477-34-4	X	-	-
Silicon Dioxide 7631-86-9	X	X	X
Boric Acid 10043-35-3	Х	-	-

## U.S. EPA Label Information

#### **EPA Pesticide Registration Number** Not Applicable

# WHMIS Hazard Class

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

D2A - Very toxic materials

E - Corrosive material





## 16. OTHER INFORMATION

NFPAHealth hazards3Flammability0Instability0Physical and Chemical PropertiesHMISHealth hazards3Flammability0Physical hazards0Personal protectionX

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Revision Note
No Information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.