

# MATERIAL SAFETY DATA SHEET

## Pure Flowers 0-30\*-20

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Pure Flowers 0-30\*-20

#### Company Identification

**Name:** Agrowchem Inc.

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### SECTION 2: COMPOSITION/INFORMATION OR INGREDIENTS

CHEMICAL NAME	%W/W	EXPOSURE LIMITS IN AIR			
		ACGIH		OSHA	
		TLV mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	PEL mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>
Organic Acid Salt	5-10	N/E	N/E	N/E	N/E
Organic Acid	>1	N/E	N/E	N/E	N/E
Organic Compound (exposure limits are for mists of this substance)	>1	10	N/E	15 (Total) 5 (Respirable fraction) 10 (Total- vacated 1989 PEL)	N/E
Proprietary Potassium Compounds	>1	N/E	N/E	N/E	N/E
Water and other components. Each of the other components are present in less than 1 percent concentration (or 0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens).	Balance	None of the other components contribute significant, additional, hazards at the concentrations present in this product			

### SECTION 3: HAZARD IDENTIFICATION

#### EYES

Contact with eyes will lead to tearing, pain, reddening, and irritation.

#### SKIN

Contact with skin may cause irritation and reddening of exposed tissue. Skin absorption is not anticipated to be a significant route of overexposure to this product.

#### INGESTION

Though not a likely route of occupational exposure. Ingestion will lead to irritation of the throat, esophagus, and other tissues of the digestive system. Symptoms of such exposure would include coughing, nausea, vomiting, and diarrhea.

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## **INHALATION**

Inhalation of sprays, aerosols, or mists of this solution may be irritating to the nose, throat, and exposed mucous membranes. Symptoms of such exposure may include coughing, sneezing, and sore throat.

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## **SECTION 4: FIRST AID MEASURES**

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### **EYES**

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses. If present, after the first 5 minutes, then continue rinsing eyes.

### **SKIN**

If the product contaminates the skin, decontaminate the affected area with running water. The minimum recommended flushing time is at least 10 minutes, especially if adverse skin reactions occur. If necessary, remove exposed or contaminated clothing.

### **INGESTION**

If this product is swallowed, do not induce vomiting. Victim should drink milk, egg whites, or large quantities of water. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. If adverse reactions occur, get medical attention.

### **INHALATION**

If mists or sprays of this product are inhaled, remove the contaminated individual to fresh air. If necessary, use artificial respiration to support vital function.

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## **SECTION 5: FIRE-FIGHTING MEASURES**

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### **EXTINGUISHING MEDIA**

Water spray, carbon dioxide, or dry chemical.

### **UNUSUAL FIRE AND EXPLOSION HAZARDS**

When involved in a fire and exposed to extremely high temperatures, the components of this product decompose to produce irritating vapors and toxic gases (e.g. phosphorous oxides, phosphine, carbon monoxide, ammonia, and carbon dioxide).

### **FLASH POINT**

Not applicable.

### **SPECIAL FIREFIGHTING PROCEDURES**

Use self-contained breathing apparatus. If possible, run off water from entering storm drains, bodies of water, or other environmentally sensitive areas.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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The following minimum personal protective equipment should be used whenever there is an accidental release: gloves, goggles, and appropriate body protection (e.g. boots, Tyvek suit). In the event of a spill in which excessive amounts of mists are generated the minimum equipment should be rubber gloves, chemically resistant suit and boots, and self-contained breathing apparatus.

If necessary, dike the spill to prevent releases from contaminating environmentally sensitive areas. Absorb spilled liquid with polypads or other suitable absorbent materials. Rinse area thoroughly with water. Decontaminate the area thoroughly. Place all spill residues in an appropriate container and seal. Dispose of this product in accordance to Federal, Provincial, State, or local procedures.

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## **SECTION 7: HANDLING AND STORAGE**

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### **HANDLING**

Avoid personal contact. Avoid breathing spray mist. Avoid container damage. Do not put leaking or damaged containers in storage.

### **STORAGE**

Store in cool well-ventilated area away from feed and food. Avoid areas of extreme heat. Do not store near strong oxidizing agents.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b><u>EYES</u></b>	Safety glasses with side shields or goggles.
<b><u>SKIN</u></b>	Wear neoprene gloves for routine industrial use. Use body protection appropriate for task (i.e. coveralls, or rubber apron).
<b><u>RESPIRATORY</u></b>	Where spray mist exposure would occur and/or where TLV would be exceeded wear a NIOSH approved respirator with pesticide cartridge.
<b><u>VENTILATION</u></b>	When application would be made in confined area local exhaust ventilation with mist collection.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b><u>APPEARANCE/ODOR</u></b>	This is a clear, colorless, with a faint to slight odor.
<b><u>BOILING POINT</u></b>	100°C (32 °F)
<b><u>SPECIFIC GRAVITY</u></b>	1.1 g/ml @ 20°C
<b><u>VAPOR PRESSURE(mmHg)</u></b>	760 @ 100°C (212°F)
<b><u>SOLUBILITY IN WATER</u></b>	100%
<b><u>pH.</u></b>	Not established.

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## SECTION 10: STABILITY AND REACTIVITY

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<b><u>STABILITY</u></b>	Stable under normal storage conditions.
<b><u>CONDITIONS TO AVOID</u></b>	Intense heat.
<b><u>MATERIALS TO AVOID</u></b>	Strong bases, strong oxidizers, strong reducers, and water reactive materials.
<b><u>HAZARDOUS DECOMPOSITION PRODUCTS</u></b>	When exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapors and toxic gases (e.g., phosphorous oxides, carbon monoxide, ammonia, and carbon dioxide).
<b><u>POLYMERIZATION</u></b>	Will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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<b><u>CARCINOGENICITY</u></b>	This product's components are not found on the following lists: U.S.FEDERAL OSHA Z LIST, NTP, IARC, and CAU/OSHA and therefore are neither considered to be nor suspected to be cancer causing agents by these agencies
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## SECTION 12: ECOLOGICAL INFORMATION

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### **ENVIRONMENTAL STABILITY**

The components of this solution are relatively stable, but will decompose overtime to generate other inorganic compounds. The following environmental data are available for the Components of this product:

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## ORGANIC ACID

It is dangerous to aquatic life in high concentrations. Lowers pH in water but does not dissociate to any great extent.

## EFFECT OF CHEMICAL ON AQUATIC LIFE

This product is a fertilizer. Release of large quantities into a body of water can substantially alter the nutrient composition and affect of aquatic plant and animal life.

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## SECTION 13: DISPOSAL CONSIDERATIONS

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Do not contaminate ponds, waterways, or ditches with chemical or used containers. Empty containers retain product residues. Observe all hazard precautions. Do not distribute or make available, furnish or reuse empty product container except for storage and shipment of original product. Remove all product residues from containers by triple rinsing. Dispose of in accordance with local, Provincial/State, and Federal regulations. Do not reuse empty container.

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## SECTION 14: TRANSPORT INFORMATION

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UNITED STATES Not DOT regulated.

CANADA Not regulated.

This material is not hazardous, per 49 CFR 172.101. U.S. Department of Transportation

Transport Canada Transportation of Dangerous Goods Regulations This material is not considered as dangerous goods.

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## SECTION 15: REGULATORY INFORMATION

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### U.S. REGULATIONS

U.S. SARA THRESHOLD PLANNING QUANTITY Not applicable.

U.S. CERCLA REPORTABLE QUANTITY (RQ) Not applicable.

U.S. TSCA INVENTORY STATUS The components of this product are listed on the TSCA Inventory.

OTHER U.S. FEDERAL REGULATIONS Not applicable.

### CANADIAN REGULATIONS

CANADIAN DSL/NDL INVENTORY STATUS The components of this product are on the DSL/NDL Lists.

OTHER CANADIAN REGULATIONS Not applicable.

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## SECTION 16: OTHER INFORMATION

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### MANUFACTURER DISCLAIMER:

The information contained herein is based on data considered accurate. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Agrowchem Inc. shall not be liable for any loss or damage arising out of the use thereof. In addition, Agrowchem Inc. shall not be liable for any damage or injury

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resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards Inherent in the nature of the product. Furthermore, vendee assumes the risk in his use of the material.