

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: Higrocorp Inc.
Address: 2-620 Cataragui Woods Drive, Kingston, Ontario, K7P 1T8
Telephone: 613-384-8882 **Website:** www.higrow.com
Fax: 613-384-4957 **Email:** info@higrow.com

SECTION 2: COMPOSITION/INFORMATION OR INGREDIENTS

CHEMICAL NAME	% w/w	EXPOSURE LIMITS IN AIR			
		ACGIH		OSHA	
		TLV mg/m ³	STEL mg/m ³	PEL mg/m ³	STEL mg/m ³
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.			

N/E = Not established

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.
- 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.

SECTION 4: FIRST AID MEASURES

- EYES** Hold eye open and rinse slowly and gently with water for 10-15 minutes. Get medical attention if irritation persists.
- 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 functions.

SECTION 5: FIRE-FIGHTING MEASURES

<u>EXTINGUISHING MEDIA</u>	Water spray, carbon dioxide, or dry chemical
<u>UNUSUAL FIRE AND EXPLOSION HAZARDS</u>	When involved in a fire and exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapors and toxic gases (e.g., phosphorous oxides, phosphine, carbon monoxide, ammonia, and carbon dioxide).
<u>FLASH POINT</u>	Not applicable.
<u>AUTO IGNITION TEMPERATURE</u>	Not applicable.
<u>FIREFIGHTING PROCEDURES</u>	Use self-contained breathing apparatus. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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 poly pads 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 Federal, Provincial/State, or local procedures.

SECTION 7: HANDLING AND STORAGE

WORK AND HYGIENE PRACTICES

As with all chemicals, avoid getting this product on you. Wash thoroughly after handling this product. Do not eat, drink, or smoke while handling this product. Avoid breathing vapors or mists generated by this product. Use in a well ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES

Open containers and drums slowly, on a stable surface. All containers of this product must be properly labeled. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10, Stability and Reactivity). Material should be stored in secondary containers or in a diked area, as appropriate. Keep container tightly closed when not in use. Inspect all incoming containers before storage to ensure that containers are properly labeled and are not damaged.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION AND ENGINEERING CONTROLS

Use with adequate ventilation to prevent inhalation of sprays or mists. All operations should be directed at minimizing the generation of aerosols, sprays, or mists. Eyewash stations/safety showers should be near areas where this product is used or sprayed.

PERSONAL PROTECTIVE EQUIPMENT

<u>EYES</u>	Splash goggles or safety glasses. Wear face shield for operations involving more than 5 gallons of this solution in which splashes or sprays can be generated.
<u>SKIN</u>	Wear neoprene gloves for routine industrial use. Use body protection appropriate for task (i.e. coveralls, or rubber apron).
<u>RESPIRATORY</u>	None required under normal circumstances of use. If operations generate aerosols, mists, or sprays respiratory protection may be needed (e.g., air purifying respirator with a high efficiency particulate filter) and must comply with the U.S. Federal OSHA Standard (29 CFR 1910.134), applicable U.S. State regulations, or the appropriate standards of Canada and its Provinces.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<u>APPEARANCE AND COLOR</u>	This is a clear, colorless, solution with a faint to slight odor.
<u>RELATIVE VAPOR DENSITY (air = 1)</u>	Not established
<u>DENSITY</u>	1.42
<u>SOLUBILITY IN WATER</u>	Completely soluble.
<u>MELTING/FREEZING POINT</u>	< 0°C (32°F)
<u>BOILING POINT</u>	> 100°C (212°F)
<u>pH</u>	6.9

SECTION 10: STABILITY AND REACTIVITY

<u>STABILITY</u>	Stable
<u>INCOMPATIBLE MATERIALS</u>	Strong bases, strong oxidizers, strong reducers, and water reactive materials.
<u>CONDITIONS TO AVOID</u>	Exposure to extreme temperatures and incompatible materials.
<u>POLYMERIZATION</u>	Will not occur
<u>DECOMPOSITION PRODUCTS</u>	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).

SECTION 11: TOXICOLOGICAL INFORMATION**CARCINOGENICITY**

This product's components are not found on the following lists: U.S. FEDERAL OSHA Z LIST, NTP, IARC, and CAL/OSHA and therefore are neither considered to be nor suspected to be cancer causing agents by these agencies

SECTION 12: ECOLOGICAL INFORMATION**ENVIRONMENTAL STABILITY**

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

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. Releases of large quantities into a body of water can substantially alter the nutrient composition and affect aquatic plant and animal life.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal must be in accordance with appropriate federal, provincial/state, and local regulations. This product, if unaltered by use, may be disposed of at a permitted facility or as advised by your local hazardous waste regulatory authority.

SECTION 14: TRANSPORT INFORMATION

<u>PROPER SHIPPING NAME</u>	Not applicable.
<u>HAZARD CLASS NUMBER/DESCRIPTION</u>	Not applicable.
<u>UN IDENTIFICATION NUMBER</u>	Not applicable.
<u>PACKING GROUP</u>	Not applicable.
<u>DOT LABEL(S) REQUIRED</u>	Not applicable.

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.

SECTION 15: REGULATORY INFORMATION

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/NDSL INVENTORY STATUS**

The components of this product are on the DSL/NDSL Lists.

OTHER CANADIAN REGULATIONS

Not applicable.

SECTION 16: OTHER INFORMATION

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 Hicrocorp Inc. shall not be liable for any loss or damage arising out of the use thereof. In addition, Hicrocorp Inc. shall not be liable for any damage or injury 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.