

NEW

**State of Maine****Master Agreement****Effective Date:** 09/21/18**Expiration Date:** 10/31/19**Master Agreement Description:** Corrosion Inhibited Liquid Magnesium Chloride**Buyer Information**

William Allen

207-624-7871 **ext.** NULL WJE.Allen@maine.gov**Issuer Information**

SHARON KRECHKIN

207-624-3038 **ext.** sharon.krechkin@maine.gov**Requestor Information**

Sharon Krechkin

207-624-3038 **ext.** sharon.krechkin@maine.gov**Authorized Departments**

17A TRANSPORTATION

**Vendor Information****Vendor Line #: 1****Vendor ID**

VC1000037422

**Vendor Name**

Innovative Municipal Products (US), Inc

**Alias/DBA**

Innovative Surface Solutions

**Vendor Address Information**

454 River Road

Glenmont, NY 12077

US

**Vendor Contact Information**

Stephanie Lalima

18002575808 **ext.**

Orders@innovativecompany.com

**Commodity Information**

**Vendor Line #:** 1

**Vendor Name:** Innovative Municipal Products (US), Inc

**Commodity Line #:** 1

**Commodity Code:** 77545

**Commodity Description:** Corrosion Inhibited Liquid Magnesium Chloride

**Commodity Specifications:**

**Commodity Extended Description:** Purpose of this bid opportunity is to create a Master Agreement to purchase Corrosion Inhibited Liquid Magnesium Chloride on an as needed basis. See bid specifications and details on the attached RFQ 17A 180906-076 Bid Specs document.

<b>Quantity</b> 0.00000	<b>UOM</b>	<b>Unit Price</b> \$0.00
<b>Delivery Days</b> 0	<b>Free on Board</b>	
<b>Contract Amount</b> \$0.00	<b>Service Start Date</b>	<b>Service End Date</b>
<b>Catalog Name</b> Part Number: 708	<b>Discount</b> 0.0000 %	
	<b>Discount Start Date</b> 10/15/18	<b>Discount End Date</b> 10/31/19

**Master Agreement Terms, Conditions & Specifications**  
**MA 180921-037**

**COMMODITY ITEM:** Corrosion Inhibited Liquid Magnesium Chloride

**CONTRACT PERIOD:** Through October 31, 2019. The State of Maine with vendor approval can opt to issue up to one (1) one (1) year extensions.

**VENDOR CONTACT PERSON:** The contact person will help consumers place orders, inquire about orders that have not been delivered, all shipping issues, quality issues, and any issues pertaining to this Master Agreement. All orders not submitted through a DO will be sent through the contractor's contact person. The contact person will be: **Frank Beliveau** Phone: **800-257-5808**  
Email: [fbeliveau@innovativecompany.com](mailto:fbeliveau@innovativecompany.com)

**EXTENSION OF CONTRACT:** The Director of Procurement Services may, with the consent of the contractor extend the Contract period beyond the indicated expiration date.

**CANCELLATION OF CONTRACT:** The Division of Procurement Services reserves the right to cancel a contract with a thirty-day written notice OR cancel immediately if the contractor does not conform to terms and conditions and specifications of contract.

**PRICES:** Prices shown are to be net including transportation charges fully pre-paid by the contractor FOB destination. Prices are to remain firm for the duration of the contract.

**QUANTITIES:** It is understood and agreed that the contract will cover the **actual quantities** required by State Agency over the length of the contract.

**ORDERING PROCEDURE:** Delivery orders (DO) will be created in AdvantageME for all orders over \$5000.00. If a DO is used, the DO will be e-mailed to the email address set up in AdvantageME by the Vendor, [Orders@innovativecompany.com](mailto:Orders@innovativecompany.com) , as a .pdf file. Orders less than \$5000.00 can be ordered using a P-Card.

**INVOICES and PAYMENT:** The Contractor shall submit an itemized bill to the Department for materials following delivery for approval and payment. Invoices shall minimally include the following:  
**Contractor name, address & Contract Number 18P 180713-006, Invoice Date & Number**

**DELIVERY:** The Contractor will be responsible for the delivery of material in first class condition at the point of delivery, and in accordance with good commercial practice.

**QUARTERLY REPORT:** The Division of Procurement Services **requires a quarterly report of sales** be faxed to 207-287-6578 within 30 days of the end of each calendar quarter. It will be the responsibility of the vendor to produce a quarterly report. The report must include the dollar value of goods purchased, broken down by Department as well as the total dollar value of purchases made by all Departments.

**PROCUREMENT CARD:** State policy requires vendors to accept the State of Maine Procurement Card (P-Card) as a form of payment, with very rare exceptions. Your company will be required to accept these cards. The pricing offered to the State of Maine shall be the final cost to the State of Maine regardless of payment method. No surcharge or other compensation will be allowed. The State of Maine reserves the right to reject your bid if you are unwilling to accept this condition.

# SPECIFICATIONS

## CORROSION INHIBITED LIQUID MAGNESIUM CHLORIDE

### I. GENERAL SPECIFICATIONS

- A. Product shall be a corrosion inhibited liquid magnesium chloride, listed on the U.S. EPA *Design for the Environment*, Deicers, list (<http://www2.epa.gov/saferchoice/products#search=deicer>).
- B. Product shall be listed on the PNS (Pacific Northwest Snowfighters) Approved Product List or shall have a Certificate of Analysis indicating product testing, in accordance with PNS specifications (<http://www.wsdot.wa.gov/partners/pns/default.htm>). Such analysis shall be provided with the bid and shall specify all test results against the corresponding PNS limits. If the product does not meet any of the specified limits, then the bidder shall identify the exception(s) and explain any mitigating circumstances. MaineDOT reserves the right to evaluate any exceptions and decide product eligibility.
- C. Product must not contain constituents more than the following established total concentration limits. Results are stated as Parts Per Million (ppm). If product exceeds any of the following constituents then the bidder shall identify the exception(s) and explain any mitigating circumstances. MaineDOT reserves the right to evaluate any exceptions and decide product eligibility.

Phosphorus	250.00 ppm	Chromium	1.0 ppm
Cyanide	0.20 ppm	Cadmium	0.20 ppm
Arsenic	5.00 ppm	Barium	10.00 ppm
Copper	4.00 ppm	Selenium	5.00 ppm
Lead	1.00 ppm	Zinc	10.00 ppm
Mercury	0.05 ppm		

- D. Product must have a pH between 4-7
- E. Product shall contain 22% plus or minus 1% to produce a final material having a eutectic (freezing) point of -40°F or lower.
- F. A 3% solution of the corrosion inhibited chemical product shall have a corrosion value of at least 70% less than that of a 3% solution of Sodium Chloride. (Determined by NACE, National Association of Corrosion Engineers, the standard TM-01-69 as modified by PNS (Pacific Northwest Snow fighters).
- G. Product must be capable of being used as a Stock pile treatment, on board wetting agent and as a salt brine enhancer. Product must have deicing capabilities on its own as well as be an effective enhancer of salt and salt brine.
- H. A table showing Freezing Point-Specific Gravity for various percentage dilutions of product in water shall be provided. Table shall include data starting from at least 5% product in water and continue to include the percentage product in water to produce the eutectic (lowest freezing point) composition.
- I. Bids must be accompanied with the most recent detailed product specification sheet and Material Safety Data Sheet (MSDS). All documents must be clearly legible. MaineDOT reserves the right to request up to two (2) gallons of product, at no additional cost, for verification testing.

## II. DELIVERY OF PRODUCT

- A. Deliveries shall be made to any of the listed MaineDOT locations identified in Exhibit A, FOB Destination-Freight Prepaid.
- B. Loads shall normally be 4,000 gallons and may be split between 2 locations. When specifically authorized, loads in excess of 4,000, but within legal load limitations, may be authorized.
- C. Bidder will be responsible for all necessary equipment to transfer liquid chemical products to MaineDOT's storage tanks.
- D. MaineDOT's storage tanks will be fitted with a two inch female stainless steel quick disconnect fitting to allow for unloading of product.
- E. An anti-foaming agent will be available from the contractor for use as needed, at no additional charge to the state, to control foaming during unloading of liquid chemical products.
- F. All material is subject to inspection and analysis as delivered. No precipitate or flocculation in liquid products shall be allowed in excess of the specification limits. Material portraying these or other uncharacteristic traits when delivered may be immediately rejected at the option of the buyer or their representative at the delivery location. All products may be assessed price adjustments for poor quality. Any problems must be noted at the point of delivery by departmental personnel, documented, and relayed to their Regional Supply Officer for action.
- G. Deliveries shall be made within two (2) weeks of order and during normal working hours (Monday through Friday, between the hours of 7:00 A.M. and 3:30 P.M., and not during holidays recognized in the State of Maine), unless otherwise requested or agreed to by MaineDOT. Any deliveries made without proper advance notification or outside of the established delivery times, unless otherwise authorized in advance, may not be able to unload the product.
- H. The bill of lading and invoice for each shipment must contain the following information.
  - Name of product.
  - Supplier and manufacturer of product.
  - Destination of delivery.
  - Total number of units being delivered.
  - Total weight of delivery (certified scale ticket).
  - Lot number of product (products) being delivered. The lot number must enable purchaser to track a delivered product back to its manufacture point, date of manufacture and specific batch.
  - Transport information--Name of transporting company, tank, trailer or rail car number, point and date of origin.
  - Percent Concentration and Specific Gravity.

The invoice must include all of the above and the following information:

1. Contract unit of measure.
2. Contract unit price for product delivered.
3. Total price for units delivered.

The Department will not process invoices for payment until the bidder has met all requirements under this section.

### III. ESTIMATED QUANTITIES

MaineDOT estimates that approximately 200,000 to 300,000 gallons will be used statewide over the course of an average winter, with roughly half of that amount being delivered north of Bangor.

Maine Department of Transportation				
Liquid Chloride Delivery Locations (2015)				
Southern Region	Mid-Coast Region	Western Region	Eastern Region	Northern Region
Region 1	Region 2	Region 3	Region 4	Region 5
Delivery Locations	Delivery Locations	Delivery Locations	Delivery Locations	Delivery Locations
Alfred	Belgrade	Athens	Aurora	Ashland
Bridgton	Brooks (w/Knox)	Avon	Baileyville	Caribou
Danville	Edgecomb	Bethel	Bangor	Crystal
Freeport	Fairfield	Canaan	Bar Harbor	Fort Fairfield
Fryeburg	Greene	Canton	Beddington	Fort Kent
Gorham	Knox	Dallas	Carmel 69	Houlton
Gray	Montville	Dixfield	Charleston	Linneus
Lebanon	North Augusta	Eustis/Gold Brook/CoP	Cherryfield	Madawaska
Lyman	Northport	Farmington/Fairbanks	Eddington	Mars Hill
North Berwick	Randolph	Jackman	Enfield	Medway
Poland	Richmond	Jay	Guilford	Oakfield
Scarborough	Rockport	Kingfield	Hancock	Presque Isle
Shapleigh	Searsport	Mercer	Jonesboro	Sherman
Standish	Sidney	Moscow	Milo	Springfield
Topsham	South China	South Paris	Orland	Topsfield
Yarmouth	Unity	Rockwood	Perry	Van Buren
	Waldoboro	Solon	Plymouth	Winn
	Washington	Turner	Sedgwick	Woodland
	West Gardiner	Wilsons Mills / Linc. Plt	Wesley	
	Winterport	West Forks		
	Winthrop	Shirley		

## Appendix E

**STATE OF MAINE  
DEPARTMENT OF ADMINISTRATIVE AND FINANCIAL SERVICES  
DIVISION OF PROCUREMENT SERVICES**

**MUNICIPALITY POLITICAL SUBDIVISION and SCHOOL DISTRICT PARTICIPATION  
CERTIFICATION**

**RFQ # 17A 180906-076  
Corrosion Inhibited Liquid Magnesium Chloride**

The Division of Procurement Services is committed to providing purchasing opportunities for **municipalities, political subdivisions and school districts** in Maine by allowing them access, through our vendors, to our contract pricing. A bidder's willingness to extend contract pricing to these entities will be taken into consideration in making awards.

Will you accept orders from political subdivisions and school districts in Maine at the prices quoted?

☒ Yes

☐ Yes, with conditions as follows:

☐ No

**Name of Company:**

INNOVATIVE MUNICIPAL PRODUCTS (US) INC.

**Address:**

454 RIVER ROAD, GLENMONT NY 12077

**Signature:**

A. J. J. INC.

**Date:**

SEPTEMBER 19, 2018

SUPPLIER PART NUMBER	ITEM DESCRIPTION	EXTENDED DESCRIPTION	UNIT OF MEASURE	LIST PRICE	DELIVERY DAYS
708-R1	Liquid Magnesium Chloride - Southern Region 1	Shipped FOB Destination	Gal	\$1.52	5
708-R2	Liquid Magnesium Chloride - Mid Coast Region 2	Shipped FOB Destination	Gal	\$1.34	5
708-R3	Liquid Magnesium Chloride - Western Region 3	Shipped FOB Destination	Gal	\$1.36	5
708-R4	Liquid Magnesium Chloride - Eastern Region 4	Shipped FOB Destination	Gal	\$1.40	5
708-R5	Liquid Magnesium Chloride - Northern Region 5	Shipped FOB Destination	Gal	\$1.53	5





## Product Technical Specification Sheet

**Product Name:** Magic Minus Zero

### Physical Characteristics:

No.	Properties	Test Method	Typical Values	Specification	
				min	max
1	Appearance	-	Brown	-	-
2	pH, deicer 1+4	ASTM D-1293	4.0	3.0	6.0
3	Specific Gravity (15°C   60°F)	ASTM D-1429	1.300	1.290	1.310
4	Weight (lbs/gal)	ASTM D-1429	10.85	10.76	10.93
5	Freeze Point Temperature	PNS	-45°C   -49°F	-	-
6	% Freezer Settable Solids	PNS	<1.0	0.0	1.0
7	% Solids Passing #10 Sieve	PNS	>99.0	99.0	100.0
8	Total Dissolved Solids	-	38.4	37.4	45.4
9	Corrosion % effectiveness	NACE PNS	9.8	-	<30.0

### Chemical Characteristics:

No.	Properties	Test Method	Typical Values	Specification	
				min	Max
10	% Magnesium Chloride	PNS	22.4	21.4	23.4
11	% Sodium Chloride	PNS	-	0.0	1.0
12	% Calcium Chloride	PNS	-	0.0	1.0
13	% Potassium Chloride	PNS	-	0.0	1.0
14	Arsenic (ppm)	EPA 200.7	<1.0	0.0	5.0
15	Barium (ppm)	EPA 200.7	<0.5	0.0	100.0
16	Cadmium (ppm)	EPA 200.7	<0.05	0.0	0.2
17	Chromium (ppm)	EPA 200.7	<0.5	0.0	1.0
18	Copper (ppm)	EPA 200.7	1.3	0.0	4.0
19	Cyanide (ppm)	EPA 335.4	<0.05	0.0	0.2
20	Lead (ppm)	EPA 200.7	<0.5	0.0	1.0
21	Mercury (ppm)	EPA 245.1	<0.02	0.0	0.05
22	Selenium (ppm)	EPA 200.7	<1.0	0.0	5.0
23	Zinc (ppm)	EPA 200.7	<0.1	0.0	10.0
24	Phosphorus (ppm)	EPA 365.4	15.9	0.0	2500.0

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Magic Minus Zero  
Effective Date: January 2015  
www.innovativecompany.com

78 Orchard Road  
Ajax, Ontario L1S 6L1  
1-800-387-5777

454 River Road  
Glenmont, NY 12077  
1-800-257-5808



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**  
WASHINGTON D.C., 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

January 22, 2008

David H. Wood  
President  
Sears Ecological Applications Company  
1914 Black River Blvd  
Rome, NY 13440

Dear Mr. Wood:

The U.S. Environmental Protection Agency applauds Sears Ecological Applications Company ("SEACO") for your leadership in developing an environmentally oriented set of deicers. EPA's Design for the Environment ("DfE") program seeks to promote the use of products with improved environmental and human health characteristics. The products in our partnership – Ice B' Gone (Magic-0), Ice B' Gone II, and Ice B' Gone II HF – fully achieve that objective in the roadway deicing sector.

The key purpose of the DfE-SEACO partnership is to recognize and encourage the environmentally preferable chemistry of the partnership products. DfE is very enthusiastic about your successful formulation of these products and about our partnership. By eliminating corrosive salts and other harmful ingredients, you have demonstrated active environmental stewardship and dedication to continuous improvement.

Consumers who use your recognized products will be participants in this important national effort to protect the environment and safeguard human health. I commend SEACO for your commitment to improving the environmental profile and performance of your products—and for leading change in the deicing industry. DfE looks forward to building this partnership and wishes you much success with the partnership products.



Sincerely,

A handwritten signature in green ink, reading "Clive Davies", is positioned below the word "Sincerely,".

Clive Davies, Chief  
Design for the Environment



September, 2010

## **Magic Minus Zero ®** **Freeze Point/Specific Gravity Chart**

<b>%Dissolved Solids</b>	<b>Specific Gravity</b>	<b>Freeze PT (°F)</b>	<b>Freeze PT (°C)</b>
5	1.01	29	-2
6	1.02	29	-2
7	1.02	28	-2
8	1.03	27	-3
9	1.04	26	-3
10	1.05	25	-4
11	1.06	24	-4
12	1.07	23	-5
13	1.07	22	-5
14	1.08	21	-6
15	1.08	20	-6
16	1.09	19	-7
17	1.10	18	-8
18	1.10	16	-9
19	1.11	14	-10
20	1.12	12	-11
21	1.13	10	-12
22	1.14	9	-13
23	1.15	7	-14
24	1.16	5	-15
25	1.16	3	-16
26	1.17	1	-17
27	1.18	0	-18
28	1.19	-2	-19
29	1.20	-4	-20
30	1.21	-6	-21
31	1.22	-8	-22
32	1.23	-9	-23
33	1.24	-11	-24
34	1.25	-15	-26
35	1.26	-18	-28
36	1.26	-24	-31
37	1.27	-31	-35
38	1.27	-36	-38
39	1.28	-42	-41
40	1.29	-49	-45



# Analytical Laboratories, Inc.

1804 N. 33rd Street  
Boise, Idaho 83703  
Phone (208) 342-5515

Date Report Printed 9/10/2018 10:21:21 AM  
<http://www.analyticallaboratories.com>  
These test results relate only to the items tested

## Laboratory Analysis Report

Sample Number: 1840233

Attn: INAM SIDDIQI  
INNOVATIVE MUNICIPAL U S  
78 ORCHARD RD  
AJAX, ON L1S 6L1, CANADA

Collected By:  
Submitted By: FEDEX

Source of Sample:  
MAGIC-O/IBG-11 (CROSBY + MOLASSES)

### Time of Collection:

Date of Collection: 8/9/2018

Date Received: 8/17/2018

Report Date: 9/10/2018

Field pH:

Lab pH:

PWS#:

Field Temp

Temp Rcvd in Lab

PWS Name:

Test Requested	MCL	Analysis Result	Units	MDL	Method	Date Completed	Analyst
% Solid Passing #10 Sieve		> 99.0	%		PNS	9/10/2018	JH
100 percent passing the #10 sieve. Freezer temperature = 0 °F (-17.8 °C).							
Arsenic, As		<1.0	mg/L	1.0	EPA 200.7	8/29/2018	JMS
Barium, Ba		1.0	mg/L	0.5	EPA 200.7	8/29/2018	JMS
Cadmium, Cd		<0.05	mg/L	0.05	EPA 200.7	8/29/2018	JMS
Chromium, Cr		<0.5	mg/L	0.5	EPA 200.7	8/29/2018	JMS
Copper, Cu		1.5	mg/L	0.1	EPA 200.7	8/29/2018	JMS
Corrosion Rate, 3 Day, TSI Coupons		15.1	%		NACE PNS	8/31/2018	JH
Corrosion Rate Duplicate = 14.7 %							
Freezer Settleable Solids		<1.0	%	1.0	PNS	9/10/2018	JH
There was no visible settleable material in a dark brown 800 mL sample. There was no density layer felt at any level.							
Lead, Pb		<0.5	mg/L	0.5	EPA 200.7	8/29/2018	JMS
Magnesium Chloride		22.5	% wt		PNS	8/31/2018	JMS
Metals Digestion		*			EPA 3050	8/20/2018	JD
Molybdenum, Mo		<1.0	mg/L	1.0	EPA 200.7	8/29/2018	JMS
Selenium, Se		<1.0	mg/L	1.0	EPA 200.7	8/29/2018	JMS
Specific Gravity		1.2981			ASTM D 1429	8/24/2018	JD
Zinc, Zn		2.3	mg/L	0.1	EPA 200.7	8/29/2018	JMS
Total Phosphate (as P)		171	mg/L	10	EPA 365.4	8/27/2018	DS
Cyanide, Total		<0.05	mg/L	0.05	EPA 335.4	8/28/2018	DS
pH, Deicer 1 + 4		4.4	S.U.		ASTM D1293	9/4/2018	JH

Email: [isiddiqi@innovativecompany.com](mailto:isiddiqi@innovativecompany.com)

MCL - Maximum Contamination Level  
MDL - Method/Minimum Detection Limit  
UR - Unregulated

Thank you for choosing Analytical Laboratories for your testing needs  
If you have any questions about this report, or any future  
analytical needs, please contact your client manager.

James Hibbs

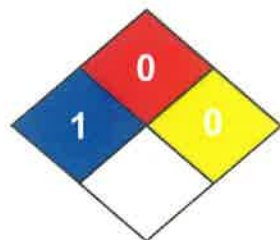
# Safety Data Sheet

Version: 6.0

Preparation Date: June, 2017

Supersedes All Previous Versions

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION



**Product Name:** MAGIC MINUS ZERO / MAGIC - 0

**Product Use:** De-icing, Anti-icing, Pre-wetting, Stockpile Treatment, Salt Brine Enhancement

**Manufacturer/Distributor:** Innovative Surface Solutions

78 Orchard Road  
Ajax, Ontario  
L1S 6L1

454 River Road  
Glenmont, NY  
12077

**Telephone:** 1-800-387-5777 1-800-257-5808

**24-Hour Emergency Telephone:** 1-800-424-9300

**WHMIS Classification:** Not controlled

**Chemical Family:** Inorganic salt solution

## SECTION 2: HAZARDS IDENTIFICATION

**Physical**  
Not Hazardous

**GHS Classification**  
**Health**  
Not Hazardous

**Environment**  
Not Hazardous

GHS Label Element

Not Hazardous

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS #	% by Weight
Magnesium Chloride	7786-30-3	22.4%
Molasses	68476-78-8	20.0%

## SECTION 4: FIRST-AID MEASURES

<b>Eye</b>	May cause slight eye irritation, immediately wash with water for 15 minutes. Get medical attention if irritation persists.
<b>Skin</b>	May cause skin irritation, wash skin thoroughly with soap and water. Get medical attention if irritation develops or persists.
<b>Ingestion</b>	Low in toxicity. May cause diarrhea and vomiting when large quantities are ingested.
<b>Inhalation</b>	Not applicable.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Appropriate extinguishing media. This product is not combustible. Choose media depending on surrounding fire. All extinguishing medias are allowed.
<b>Specific Hazards Arising from the Chemical</b>	Expose to temperature above 160 C gives formation of toxic chloride gases
<b>Protective Equipment and Precaution</b>	Protective actions and / or special protective equipment depending on surrounding fire. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Risks and Spills</b>	Small spills can be washed away with water. For large spills cordon off the spill area, collect and or absorb liquid with an inter absorbent and place in appropriate container for disposal. Flush spill area with water Report releases as per local, state and federal authorities
<b>Protective Equipment and Exposure Control</b>	See Section 9 for details

## **SECTION 7: HANDLING & STORAGE**

### **Precaution for Safe Handling**

Wear protective equipment and equipment. Avoid contact with eyes, skin and clothing.  
Avoid breathing mist or aerosols  
Wash your skin thoroughly with soap and water after handling, if product comes in contact.

### **Safe Storage / Incompatibilities**

Store in cool, dry, well-ventilated area away from incompatible material.  
Carbon Steel, polyester, polyethylene and polypropylene are suitable material for construction.

## **SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION**

### **Exposure Control**

Not established, no special precaution required.

### **Respiratory Protection**

For dusty or misty conditions, wear NIOSH approved dust or mist respirator.

### **Skin Protection**

Wear rubber gloves, boots and long sleeve shirts.

### **Eye Protection**

Wear safety goggles.

## **SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

### **Physical State:**

Liquid

### **Appearance | Odor:**

Brown liquid | Pleasant odor

### **Odor Threshold:**

Not established

### **Specific Gravity:**

1.302g/mL

### **pH:**

3.0 to 5.0

### **Vapor Pressure:**

Not determined

### **Solubility in Water:**

Completely

### **% Volatile:**

Not determined

### **Vapor Density:**

Not determined

## **SECTION 10: STABILITY & REACTIVITY**

### **Reactivity / Chemical Stability**

Not reactive. Stable under normal storage and handling conditions.

### **Conditions to Avoid**

Temperature below or close to product freezing point can give formation of crystals during storage.

### **Incompatible Material**

Strong oxidizing agents, concentrated acids and some metals.

### **Hazardous Decomposition Products**

Above 160 C product decomposes and emits hydrogen chloride, halogenated compounds and chloride gas.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Ingestion**

Ingestion may cause slight irritation with nausea, vomiting and diarrhea.

### **Inhalation**

Inhalation of mist may cause slight irritation of nose, throat and upper respiratory tract.

### **Eye**

May cause minor irritation with pain and tearing.

### **Skin**

May cause slight irritation on prolonged or repeated contact.

### **Carcinogenicity**

None of the component in the product is listed as carcinogen or suspected carcinogen by IARC, NTP or OSHA.

### **Reproductive Toxicity**

None.

### **Oral (rate) LD 50**

8100 mg / Kg

### **Appraisal**

The material is classified as not toxic.

## **SECTION 12: ECOLOGICAL INFORMATION**

### **Eco toxicity**

Fathead minnow NOEC: 1.0 g / L

Ceriodaphnia dubia NOEC: 1.00 g / L

Selenastrum growth NOEC: 2.0 g / L

### **Persistence and Degradability**

Not applicable.

### **Bio accumulative Potential**

No data available.

### **Mobility in Soil**

No data available.

### **Other Adverse Effects**

None known.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with local, state and federal environmental regulations.



## **SECTION 14: TRANSPORT INFORMATION**

Proper Shipping Name	Not regulated
UN Number	None
Hazard Class / packing Group	None
Label Required	None

## **SECTION 15: REGULATORY INFORMATION**

CERCLA	This product is not subjected to CERCLA release reporting. Many States have more stringent release reporting requirements. Report spills required under federal, state and local regulations.
SARA Hazard Category (311 / 312)	Not Hazardous
SARA 313	None
EPA TSCA Inventory	All of the ingredients in this product are listed on the EPA TSCA Inventory.
CEPA	All the components of this product are listed on the Canadian DSL
WHMIS Classification	Not classified as dangerous.

## **SECTION 16: PREPARATION INFORMATION**

Prepared By:	Innovative Surface Solutions
Telephone:	905-427-0318
Preparation Date:	June, 2017
Superseded Date:	ALL PREVIOUS VERSIONS