



# MATERIAL SAFETY DATA SHEET

Water Matrix Inc.

Matrix Dissolve

## SECTION V: FIRE FIGHTING MEASURES

**Flammability:** Non flammable  
**Flash Point deg (C,TCC) :** Not Applicable

**Means of Extinction:** As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam  
**Special Fire Hazards:** Fire fighters should wear self contained breathing apparatus.  
**Auto ignition temperature:** Not applicable.  
**Flame propagation or burning rate of solid:** Not applicable.  
**Sensitivity to static discharge:** Not applicable  
**Unusual Fire and Explosion Hazards.** At temperatures above 60 C/140F acid action on most metals may release Hydrogen, a highly flammable and explosive gas.  
**Hazardous decomposition products:** Oxides of carbon, oxides of nitrogen, Hydrochloric Acid. Hydrogen may be released upon contact with certain metals.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedures:** Before attempting clean up, refer to the hazard data provided above. Small spills may be absorbed with non reactive absorbent and placed in suitable, covered, labeled container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations. For large spills prevent from entering sewers and waterways. For large spills provide diking to prevent spreading. Observe all personal protection equipment recommendations.

## SECTION VII: HANDLING AND STORAGE

**Storage Requirements:** KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials which include alkalis, oxidizing materials, reducing sugars and Ammonia Salts. Do not store in metal containers, especially Aluminum. Do not store at temperatures above 48 C / 120F

## SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

**Gloves:** Impervious protective gloves. Rubber or Nitrile.  
**Eye Protection:** Use chemical goggles or full face shield.  
**Respiratory Protection:** Not normally required if good ventilation is maintained. If mist is generated during application process, use disposable mist applicator.  
**Other Protective Equipment:** As required by employer code. Eye bath, safety shower, protective clothing.  
**Engineering Controls:** General ventilation normally required. If ventilation practices are not adequate for minimizing exposure, additional ventilation or exhaust systems may be required.

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point ( deg C)</b>	100	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.00-1.02	<b>Evaporation Rate (water=1):</b>	similar
<b>% Volatile (Wt%):</b>	> 40%	<b>Solubility in water:</b>	Complete	<b>pH (as supplied):</b>	1.0-1.5
<b>Physical State:</b>	Liquid	<b>Viscosity:</b>	Slightly viscous		
<b>Appearance / Odour:</b>	amber clear liquid with mild typical odour				

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## SECTION X: STABILITY AND REACTIVITY

**Conditions for Chemical Instability:** Stable up to 110 C/ 230 F  
**Incompatible Materials:** Strong oxidizing agents.. This material is extremely hazardous in contact with chlorates or nitrates. This material is acidic. Contact with hypochlorite ( eg chlorine bleach, sulfides or cyanides will liberate toxic gases. Contact with alkaline materials ( eg ammonia) will generate heat.  
**Hazardous Decomposition Products:** Oxides of carbon, Oxides of Nitrogen when heated. Hydrogen can be produced upon contact with certain metals.

## SECTION XI: TOXICOLOGICAL INFORMATION

Carcinogenicity : Not listed by IARC, NTP or ACGIC  
Tertogenicity, Mutagenicity Reproductive effects. None found when tested by the Ames Assay ( OECD Guidelines for testing of Chemicals, Sec 471)  
Synergistic Materials: None Known  
Acute eye irritation/ corrosion test: this product was found to be corrosive to the eyes when tested using the Modified Draize Method.

## SECTION XII: ECOLOGICAL INFORMATION

**Biodegradability:** Surfactants are biodegradable as per Ready Biodegradability Closed bottle test (OECD 301 D, also known as the US EPA as OPPTS 835.3100 ( Fate, Transport and Transformation Test Guidelines. Urea salt in biodegradable.  
  
96 hour LC0> 140 mg/L ( rainbow trout) 48 hour LC50 71.1 ml/L ( ceriodaphnia dubia), 15 minute IC 50 16.23 % effect at a concentration of 10 mg/L ( Vibrio fischeri 4 H 6002)

## SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

## SECTION XIV: TRANSPORTATION

**T.D.G. Classification:** Not Regulated  
**D.O.T. Classification:** Not regulated

## SECTION XV: REGULATORY INFORMATION

**Occupational Health and Safety Regulations:**  
**WHMIS Class:** Class E Class D Division 2B  
**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard ( CFR29.1920.1200) and Canadian WHMIS regulations  
**Environmental Regulatory Lists:**  
**SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372** None of these ingredients are listed.  
**CERCLA – Section 102 (Reportable Quantity) 40 CFR 302** None of the ingredients are listed  
**RCRA 40 CFR 261 (Subpart D)** None of the ingredients are listed  
**CLEAN WATER ACT – Section 311 ( Reportable Qty) 40 CFR 116:** None of these ingredients are listed  
**CLEAN AIR ACT – Section 312 ( List of Hazardous Pollutants) 40 CFR 63 (Subpart C)** None of these ingredients are listed  
  
**National Pollutant Release Inventory Toxic Substances Control Act (TSCA)** None of these ingredients are listed  
**Canadian Domestic Substance List (DSL):** All ingredients are registered on the Chemical Substances Inventory. All ingredients are registered on the DSL

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## SECTION XVI: OTHER INFORMATION

<b>Date:</b>	Nov., 2009	<b>Prepared By:</b>	Water Matrix Inc.	<b>Telephone:</b>	905 850 8080
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**Disclaimer:**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).