

**Material Safety Data Sheet  
HYDRAVITALIZE**

<b>HYDRAMASTER CORP.</b>  11015 47TH AVE. W MUKILTEO, WA. 98275 (425) 775-7272	DATE PREPARED:..... JAN 2, 2013 DATE REVISED: ..... JAN 1, 2013  24 HOUR EMERGENCY PHONE NUMBER PERS:..... 1-800-633-8253
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**SECTION I – PRODUCT IDENTIFICATION**

**PRODUCT NAME:** ..... HYDRAVITALIZE  
**CHEMICAL FAMILY:** ..... MODERATELY ACIDIC MATERIAL  
**FORMULA:** ..... N/A  
**CAS NUMBER:** ..... N/A

**SECTION II – COMPOSITION, INFORMATION ON INGREDIENTS**

**THRESHOLD LIMIT VALUE:..** The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT	PERCENT	CAS #	ACGIH/TWA	STEL/TLV
Carbamide hydrochloride	10-20	506-89-8	NOT EST.	NOT EST.
Propylene glycol butyl ether	1-5	5131-66-8 & 15821-83-7	NOT EST.	NOT EST.

Also contains non hazardous proprietary surfactant.

**SECTION III – HAZARDOUS IDENTIFICATION**

**EMERGENCY OVERVIEW:**

**EYES:** ..... May cause severe eye irritation with possible permanent eye damage and impairment of vision.

**SKIN (DERMAL):**..... Skin contact may cause irritation while prolonged exposure may cause chemical burns.

**SWALLOWING (INGESTION):** May cause severe gastrointestinal irritation and/or ulceration of the mouth and throat. Single dose oral LD50 has not been determined.

**INHALATION:**..... Vapors and mist may cause respiratory tract irritation.

**MEDICAL CONDITION AGGRAVATED**

**BY EXPOSURE:**..... Existing skin and/or respiratory disorders may be aggravated by exposure.

**CHRONIC OVEREXPOSURE:..** None known

**OSHA REGULATORY STATUS:** Since this product is a mixture, there is no defined PEL's (Personal Exposure Limits) established by OSHA. ACGIH TLV's (Threshold Limit Values) for hazardous components are listed in the Hazardous Ingredients Section of this MSDS.

**SECTION IV – FIRST AID MEASURES**

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**EYES:** ..... In case of contact, immediately flush eyes with lots of running water for at least 15 minutes. Call for medical assistance.

**SKIN (DERMAL):**..... Wash with running water for 15 minutes while removing contaminated clothing. Wash contaminated clothing before reuse.

**SWALLOWING (INGESTION):** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

**INHALATION:**..... Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen as directed by physician or medical personnel.

### SECTION V – FIRE FIGHTING MEASURES

**FLASHPOINT:**..... Non flammable, non combustible

**LOWER EXPLOSIVE LIMIT:**... N/A

**UPPER EXPLOSIVE LIMIT:**..... N/A

**EXTINGUISHING MEDIA:** ..... Use extinguishing media appropriate to primary cause of fire.

**SPECIAL FIRE FIGHTING PROCEDURES:** ..... Avoid contact with fire fighting personnel as burns may result from contact with skin. when fighting a fire near or involving this product, wear a self-contained breathing apparatus. (SCBA)

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** ..... None known

### SECTION VI – ACCIDENTAL RELEASE MEASURES

**SPILL/ LEAK PROCEDURES:**.. Appropriate protective clothing must be worn by trained cleanup personnel. Dike the area to contain the spill. Dilute with large quantities of dilute soda ash or sodium bicarbonate (baking soda) solution to neutralize any residual acid. Properly neutralized liquid (pH 6-9) may be disposed of in waste water treatment facilities. Check with local authorities first.

### SECTION VII – HANDLING AND STORAGE

**HANDLING INFORMATION:** .. Store away from alkalines, oxidizing compounds and other incompatible materials. Keep container tightly closed when not in use. KEEP OUT OF REACH OF CHILDREN.

**STORAGE REQUIREMENTS:**.. Keep containers tightly closed when not in use. Empty container completely and dispose of in accordance with applicable regulations. SPILLS: Contain spill. Absorb with inert material and dispose in accordance with applicable regulations. Store away from food production areas and food storage areas.

### SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

**EYE PROTECTION:**..... Chemical safety splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit the other type safety type glasses. Consult with your safety representative.

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**RESPIRATORY PROTECTION:** Respiratory protection should be worn if levels exceed defined PEL's for this product or any hazardous component listed in the Hazardous Ingredient Section of this MSDS.

### OTHER PROTECTIVE

**EQUIPMENT:** ..... Rubber gloves, coveralls and protective footwear.

**VENTILATION:** ..... Local exhaust sufficient to maintain TLV below permissible exposure limits.

## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** ..... Light amber liquid with mild odor.

**BOILING POINT:** ..... Appx. 212° F.

**VAPOR PRESSURE:** ..... NOT EST.

**VAPOR DENSITY (AIR=1):** ..... NOT EST.

**SPECIFIC GRAVITY:** ..... 1.06

**pH:** ..... 1.0 - 2.0 as is

**SOLUBILITY IN WATER:** ..... Completely soluble in water.

## SECTION X – STABILITY AND REACTIVITY

**STABILITY:** ..... Stable

### HAZARDOUS

**POLYMERIZATION:** ..... Will not occur

**INCOMPATIBILITY:** ..... Chlorinated products such as bleach, alkaline materials, metals, metal powder, carbides, chlorates, fumigates, nitrates, picrates, strong oxidizers, reducing or combustible organic material. Hazardous gases are evolved on contact with chemicals such as chlorine bleach, cyanides, sulfides and carbides.

### HAZARDOUS

**DECOMPOSITION:** ..... Carbon monoxide and carbon dioxide upon thermal decomposition.

## SECTION XI – TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL

**INFORMATION:** ..... **Carbamid hydrochloride:** Oral LD<sub>50</sub> (Rat): No data. Dermal LD<sub>50</sub> (Rabbit): No data. Inhalation LC<sub>50</sub>: No data. Primary skin irritation: Not data. Primary eye irritation: No data.

## SECTION XII – ECOLOGICAL INFORMATION

### ECOLOGICAL

**INFORMATION:** ..... **Carbamide hydrochloride:** EC<sub>50</sub> (Bactierium toxicity): No Data, LC<sub>50</sub> (Rainbow trout): No data, BOD: No data, COD: No data. Environmental/Biodegradation: Carbamid hydrochloride is the salt of Hydrogen Chloride and Carbamide (Urea) and is readily dissociated in water into hydrated protons and chloride ion.

## SECTION XIII – DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL:**..... Consult all LOCAL, STATE, and FEDERAL regulations with regard to proper and suitable disposal methods.

### SECTION XIV – TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** ..... N/A (domestic ground), UN-1760, CORROSIVE LIQUID, N.O.S.  
CARBAMIDE HYCROCHLORIDE) 8, PG-III (air or international)  
**HAZARD CLASS AND LABEL:** NON HAZARDOUS (domestic ground), CORROSIVE (air or international)  
**UN NUMBER:** ..... N/A (domestic ground), UN-1760 (air or international)  
**PACKAGING GROUP:**..... N/A (domestic ground), PG-III (air or international)

### SECTION XV – REGULATORY INFORMATION

**LISTED CARCINOGEN:**..... None known  
**TSCA STATUS:**..... All components in this product are listed on the TSCA inventory.  
**SARA SECTION 313:** ..... This product **does not** contain any EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning Community Right-To-Know Act of 1986 (40CFR 372):  
**NFPA HEALTH:** ..... 2  
**NFPA FLAMMABILITY:**..... 0  
**NFPA REACTIVITY:**..... 0

#### EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES:

**R-PHRASES:** ..... R36: Irritating to eyes R38: Irritating to skin

**S-PHRASES:**..... S36: Wear suitable protective clothing. S2: Keep out of reach of children.

**CANADIAN WHMIS:**..... This MSDS has ben prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. Carbamide hydrochloride: Not controlled under WHMIS Canada.

**CANADIAN DSL:** ..... (Domestic Substances List): Listed

### SECTION XVI – OTHER INFORMATION

**REFERENCES:** ..... The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Hydramaster Corp. assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

**FOOT NOTES:** ..... NOT EST. = Not Established, N/A = Not Applicable, (Ceil) = TLV ceiling limit.