

**Material Safety Data Sheet  
HYDRA-DRI**

<b>HYDRAMASTER CORP.</b> 11015 47TH AVE. W MUKILTEO, WA. 98275 (360) 710-0400	DATE PREPARED:..... MAR 1, 2008 DATE REVISED:..... MAR 1, 2013  24 HOUR EMERGENCY PHONE NUMBER CHEMTREC:..... 800-424-9300
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**SECTION I – IDENTIFICATION**

**PRODUCT NAME:**..... HYDRA-DRI  
**CHEMICAL FAMILY:**..... MODERATELY ALKALINE MATERIAL  
**FORMULA:**..... N/A  
**CAS NUMBER:**..... N/A

**SECTION II – 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 III – 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.

HAZARDOUS INGREDIENT	PERCENT	CAS NO.	ACGIH/TWA	STEL/TLV
Sodium carbonate	20-40	497-19-8	NOT EST.	NOT EST.
Sodium metasilicate	10-20	6834-92-0	NOT EST.	NOT EST.
Dipropylene glycol methyl ether	1-5	34590-94-8	100 PPM	150 PPM
EDTA tetrasodium salt	1-5	64-02-8	NOT EST.	NOT EST.

See section VIII for additional TLV information. Also contains biodegradable surfactant(s).

**SECTION IV – FIRST AID DATA**

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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):**..... Immediately flush skin with lots of cool running water for at least 15 minutes while removing contaminated clothing and/or shoes. Wash contaminated clothing and/or shoes 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 spill. Dilute with large quantities of water and neutralize with dilute acids such as acetic or phosphoric 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 acids, 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

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**EYE PROTECTION:**..... Chemical safety goggles and full face shield to protect against splashing in compliance with OSHA regulations are advised. OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist) Contact lenses should not be worn when working with any chemicals.

**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:** ..... Impervious protective clothing and chemical resistant safety shoes should be worn to minimize contact. Emergency shower and eyewash facility should be in close proximity. (ANSIZ358.1)

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

**ADDITIONAL MEASURES:** Dipropylene Glycol Methyl Ether: OSHA/PEL = 600 mg/M<sup>3</sup> (100 ppm) Skin.

## SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** ..... Blue free flowing powder with mild odor.

**BOILING POINT:**..... NOT EST.

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

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

**SPECIFIC GRAVITY:**..... NOT EST.

**pH:** ..... 11.5 - 12.0 (1% solution)

**SOLUBILITY IN WATER:**..... Soluble in water.

## SECTION X – STABILITY AND REACTIVITY DATA

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

### HAZARDOUS

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

**INCOMPATIBILITY:** ..... Strong oxidizing agent, strong acids.

### HAZARDOUS

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

## SECTION XI – TOXICOLOGICAL INFORMATION

### TOXICOLOGICAL

**INFORMATION:** ..... **SODIUM METASILICATE:** This product has not been tested for primary eye irritation potential. However, on the basis of its alkalinity, it is regarded as corrosive to the eyes. OECD Guidelines Section 404 testing resulted in dermal corrosion. Acute Oral Toxicity LD50 (rat): 1500 - 3200 mg/kg. **MUTAGENICITY:** This product was not found to be mutagenetic to the bacterium E. Coli when tested in a mutageneticity bioassay. There are no known reports of carcinogenicity of sodium silicates. **DIPROPYLENE GLYCOL METHYL ETHER: Acute Toxicity:** Ingestion LD50, Rat 5135 mg/kg. Skin Absorption LD50, Rabbit > 20 ml/kg; Sensitization Skin: Did not cause allergic skin reactions when tested in humans. **Related Dose Toxicity:** In animals, effects have been reported on the following organs: Liver, Kidney. Symptoms of excessive exposure may be anesthetic or narcotic effects: dizziness and drowsiness may be observed. **Developmental Toxicology:** Did not cause birth

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defects or any other fatal effects in laboratory animals. **Genetic Toxicology:** In Vitro genetic toxicity studies were negative. **Ethylenediamine Tetraacetate (EDTA):** The 96 hour LC50 = 1030 mg/L for Bluegill. The 96 hour No Adverse Effect Level (NOAEL) is 456 mg/L for Bluegill. C.O.D.: approx. 260 mg/s. This product is not readily biodegradable.

### SECTION XII – ECOLOGICAL INFORMATION

#### ECOLOGICAL

**INFORMATION:** ..... **SODIUM METASILICATE:** This material is not persistent in aquatic systems, but its high pH when undiluted or un-neutralized is acutely harmful to aquatic life. Diluted material yields dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD. This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. **Ethylenediamine Tetraacetate (EDTA):** Treat as nuisance dust - 10 mg/M<sup>3</sup>.

### SECTION XIII – DISPOSAL CONSIDERATIONS

**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  
**HAZARD CLASS AND LABEL:** NON HAZARDOUS  
**UN NUMBER:** ..... N/A  
**PACKAGING GROUP:**..... N/A

### 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

**Canada - DSL/NDSL:** Sodium carbonate: Sodium Carbonate: CAS# 497-19-8 is listed on Canada's DSL List.  
**Canada – WHMIS:** Sodium carbonate: This product has a WHMIS classification of D2B. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. **Canadian Ingredient Disclosure List:** CAS# 497-19-8 is listed on the Canadian Ingredient Disclosure List.

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**Canada – DSL/NDSL:** Sodium Metasilicate: *DSL: (Canada):* All components of this formulation are listed on the CEPA-DSL *WHMIS (Canada):* Class E This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

**WHMIS (Canada):** Glycol Ether DPM: CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

**WHMIS (Canada):** EDTA Tetrasodium salt: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

<b>SECTION XVI – OTHER INFORMATION</b>
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**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.