

**Material Safety Data Sheet
HYDRASTONE**

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SECTION I – PRODUCT IDENTIFICATION

PRODUCT NAME: HYDRASTONE
CHEMICAL FAMILY: Moderately Alkaline Material
FORMULA: N/A
CAS NUMBER: N/A

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.

COMPONENT	PERCENT	CAS #	ACGIH/TWA	STEL/TLV
Diethylene glycol monobutyl ether	1-5	112-34-5	NOT EST.	NOT EST
Sodium metasilicate	< 1	6834-92-0	NOT EST.	NOT EST.
Propylene glycol n-butyl ether	5-10	5131-66-8& 15821-83-7	NOT EST.	NOT EST.

Also contains proprietary surfactant.

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 gastrointestinal irritation or ulceration and severe burns of the mouth and throat. Single dose oral LD50 has not been determined.

INHALATION:..... Dusts or mists may cause severe irritation in upper respiratory tract.

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

Material Safety Data Sheet

HYDRASTONE

EYES: In case of contact, immediately flush eyes with lots of running water for at least 15 minutes. If irritation persists, get medical attention.

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.

NOTE TO PHYSICIAN:..... Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock.

SECTION V – FIRE FIGHTING MEASURES

FLASHPOINT:..... > 200° F.

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. Dilute with large quantities of water and dispose in waste water treatment facilities. Check with local authorities first.

SECTION VII – HANDLING AND STORAGE

HANDLING INFORMATION: .. Do not get in eyes, on skin or on clothing. Avoid breathing dust, mists or spray. Do not take internally. Wash thoroughly after handling or contact. Exposure can cause burns that are not immediately painful or visible. Do not add water to contents while in container because of possible violent reaction. Keep container out of sun and away from heat, sparks and flames. Keep container tightly closed when not in use to prevent leakage. Do not use pressure to empty container. Do not wash out container or use it for other purposes. Replace closure after each withdrawal and return it with empty container. Empty containers retain product residue and must be handled as if they were full. 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.

Material Safety Data Sheet

HYDRASTONE

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.

RESPIRATORY PROTECTION:Respiratory protection is not normally required. If mists or vapors are present from other sources, where an approved respirator or self contained breathing apparatus.

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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear colorless liquid with mild odor.

BOILING POINT:..... Approx. 212°

VAPOR PRESSURE: NOT EST.

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

SPECIFIC GRAVITY:..... 1.02

pH: 11.6-12.0 As is

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

SECTION X – STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS

POLYMERIZATION: Will not occur

INCOMPATIBILITY: Avoid contact with aluminum, tin, zinc, bronze, brass and alloys containing these metals. Do not mix with acids or organic compounds due to possible violent reaction. Avoid contact with leather, wool, organic halogens and nitrogen compounds.

HAZARDOUS

DECOMPOSITION: Carbon monoxide and carbon dioxide upon thermal decomposition. May liberate oxygen which may contribute to the severity of a fire.

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL

INFORMATION: **Diethylene Glycol Monobutyl Ether:** (Glycol Ether DB): Estimated LD50: 2200mg/kg (oral, rabbit), 2400 mg/kg & 6050mg/kg (Oral, mouse), & 4500 & 5560 mg/kg (Oral, rat). Estimated LC50: Not known. Not known. Reproductive Effect: Not known.

Material Safety Data Sheet

HYDRASTONE

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL

INFORMATION: **Diethylene glycol monobutyl ether:** Goldfish, LC50 = 2700mg/24hr; Atlantic silverside, TL50 = 2000 ppm/96hr.

SECTION XIII – DISPOSAL CONSIDERATIONS

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

ADDITIONAL: Always add this product to water with constant agitation.

SECTION XIV – TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Not DOT 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.

NFPA HEALTH: 2

NFPA FLAMMABILITY:..... 0

NFPA REACTIVITY:..... 0

R-PHRASES: R36: Irritating to eyes R22: Harmful if swallowed. R38: Irritating to skin

S-PHRASES:..... S24/25: Avoid contact with skin, eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

CANADIAN WHMIS: Sodium metasilicate: WHMIS class E: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations. Diethylene glycol monobutyl ether: Class B combustible liquid, Class D2B other toxic effects-skin irritation.

CANADIAN DSL: Listed (Domestic Substances List)

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: N/A = Not Applicable, NOT EST. = Not Established.