

**Material Safety Data Sheet
HYDRACLEAN**

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SECTION I – PRODUCT IDENTIFICATION

PRODUCT NAME: HYDRACLEAN
CHEMICAL FAMILY: Mildly 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.

COMPONENT	PERCENT	CAS #	ACGIH/TWA	STEL/TLV
Ethylene glycol monobutyl ether	1-5	111-76-2	20 PPM	NOT EST.
Sodium tripolyphosphate	1-5	7758-29-4	NOT EST.	NOT EST.
Tetrapotassium pyrophosphate	1-5	7320-34-5	NOT EST.	NOT EST.
Acrylic polymer	5-10	Proprietary	NOT EST.	NOT EST.

Also contains biodegradable surfactant.

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 plenty of running water until no product residue remains. 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 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

EYE PROTECTION:..... Chemical safety goggles and full face shield to protect against splashing in compliance with OSHA regulations are advised. OSHA regulations also permit

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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.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear amber liquid with pleasant odor.

BOILING POINT:..... Approx. 212° F.

VAPOR PRESSURE:..... NOT EST.

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

SPECIFIC GRAVITY:..... 1.07

pH: 9.0 - 9.5

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

SECTION X – STABILITY AND REACTIVITY

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: **2-Butoxyethanol:** Routes of Entry: Absorbed through skin. Eye contact. Inhalation. Toxicity to Animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 470 mg/kg (Rat). Acute dermal toxicity (LD50): 220 mg/kg (Rabbit). Acute toxicity of the vapor (LC50): 450 4hours (Rat). Chronic Effects on Humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: blood, kidneys, liver, central nervous system (CNS). Other Toxic Effects on Humans: Hazardous in case of skin contact (permeator), or ingestion or inhalation. Slightly hazardous in case of skin contact (irritant). Special Remarks on Toxicity to animals: Not Available. Special Remarks on Chronic Effects on Humans: May cause adverse reproductive effects (maternal and paternal fertility, fetotoxicity) based on animal data. May cause birth defects (teratogenic) based on animal data. May cause cancer (tumorigenic) based on animal data.

SECTION XII – ECOLOGICAL INFORMATION

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ECOLOGICAL

INFORMATION: Inorganic phosphates in contact with the soil, subsurface and surface waters may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates that are insoluble in water and become part of the soil or sediment. **2-Butoxyethanol:** Ecological Toxicity: Not Available. BOD5 & COD: Not Available. Products of Degradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. Toxicity of the Products of Degradation: The products of degradation are less toxic than the product itself. Special Remarks on the Product of Degradation: Not Available.

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: N/A
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
R-PHRASES: R36: Irritating to the eyes, R38: Irritating to skin
S-PHRASES:..... S24: Avoid contact with skin, S25: Avoid contact with eyes.
CANADIAN WHMIS:..... CLASS D-2B: Material causing other toxic effects (TOXIC).
CANADIAN DSL: (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: NOT EST. = Not Established, N/A = Not Applicable, (Ceil) = TLV ceiling limit.