

SAFETY DATA SHEET

HYDRA FRESH LVC

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : HYDRA FRESH LVC
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Moderately Alkaline Material
SUPPLIER : HydraMaster Corp.
SUPPLIER'S ADDRESS : 1500 Industry St. Suite 300
Everett, WA 98203 (425) 775-7272
EMERGENCY RESPONSE PHONE NUMBER : PERS: 1-800-633-8253

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS U.S. – CLASSIFICATION : H302 Harmful if swallowed.
: H315 Causes skin irritation
: H319 Causes serious eye irritation

LABEL ELEMENTS : **GHS – US HAZARD PICTOGRAMS** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :



SIGNAL WORD : WARNING
HAZARD STATEMENTS (GHS-US) : H319 Causes serious eye irritation.

PRECAUTIONARY STATEMENTS (GHS-US) : P101 If medical advice is needed, have product container or label at hand.
: P102 Keep out of reach of children.
: P103 Read label before use.
: P264 Wash skin and contaminated clothing thoroughly after handling.
: P270 Do not eat, drink, or smoke when using this product.
: P280 Wear suitable protective gloves / protective clothing / eye protection / face protection.
: P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
: P302+P352 IF ON SKIN: Wash with plenty of soap and water.
: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
: P332+P313 If skin irritation occurs: Get medical advice/attention.
: P337+P313 If eye irritation persists: Get medical advice/attention.
: P501 Dispose of contents/container in accordance with local/regional/national/international regulations

OSHA HAZARDS : Target Organ Effect (Glycol Ether DPM)
TARGET ORGANS : Kidney, Liver, Nerves (Glycol Ether DPM).
CLASSIFICATION SYSTEM : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA RATINGS (SCALE 0-4) : Health = 2, Fire = 0, Reactivity = 0
HMIS RATINGS (SCALE 0-5) : Health = 2, Fire = 0, Reactivity = 0

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERISTIC DESCRIPTION : Mixtures
: Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Alcohols Ethoxylated	5-10	68439-46-3	Not Found	Eye Irrit Cat 2B
PPG-2 methyl ether	1-5	34590-94-8	252-104-2	Eye Irrit: Cat 2B
Propylene Glycol Butyl Ether	1-5	5131-66-8	225-878-4	Skin Irrit. Cat 2, Eye Irrit. Cat 2A
Ethylenediamine Tetraacetate Na salt	1-5	64-02-8	200-573-9	Skin Irrit Cat 2, Eye Dam Cat 2A
5-Chloro-2-methyl-4-isothiazolin-3-one	1.11	26172-55-4	247-500-7	Not Found
Polymer	1-5	Trade Secret	N/A	Not Classified Under GHS

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, STOT = Specific Target Organ Toxicity. Also contains non-hazardous dye. Contains an allergen.

SECTION 4 – FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. Show the label where possible.

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. If irritation persists, get immediate medical attention.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. If irritation persists, get immediate medical attention.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. Never give anything by mouth to an unconscious person. Get immediate medical attention.

INHALATION : Remove to fresh air. Get immediate medical attention.

OTHER INSTRUCTIONS : Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA : Dry chemical, foam, water, or carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS : In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.

UNUSUAL FIRE AND EXPLOSION HAZARDS : No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.

ENVIRONMENTAL PROCEDURES : Keep spilled material away from sewage/drainage systems and waterways.

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METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP : All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING : Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.

CONDITIONS FOR SAFE STORAGE : Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (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	OSHA PEL – TWA	ACGIH – TLV	ACGIH – STEL
Alcohols Ethoxylated	Not Established	Not Established	Not Established
PPG-2 methyl ether	100 ppm, 600mg/m ³	100 ppm	150 ppm
Propylene Glycol Butyl Ether	Not Established	Not Established	Not Established
Ethylenediamine Tetraacetate Na salt	Not Established	Not Established	Not Established
5-Chloro-2-methyl-4-isothiazolin-3-one	Not Established	Not Established	Not Established
Polymer	Not Established	Not Established	Not Established

EYE PROTECTION : Wear chemical splash goggles or face shield.

SKIN PROTECTION : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.

RESPIRATORY PROTECTION : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.

VENTILATION : Ensure adequate ventilation.

ADDITIONAL MEASURES : Emergency eyewash and safety shower facilities should be available in the immediate work area.

REQUIRED WORK/HYGIENE : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages, and feed. Do not eat, drink, or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear liquid

ODOR : Pleasant Fragrance

ODOR THRESHOLD : Not available

PH : 7.0 – 9.0

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MELTING POINT/FREEZING POINT	: Not available
BOILING POINT	: Approx. 212° F.
FLASH POINT	: Nonflammable, Noncombustible
EVAPORATION RATE	: Not available
FLAMMABILITY	: Nonflammable, Noncombustible
LOWER FLAMMABILITY LIMIT	: Not available
UPPER FLAMMABILITY LIMIT	: Not available
VAPOR PRESSURE	: Not available
VAPOR DENSITY (AIR=1)	: Not available
RELATIVE DENSITY	: 1.02
SOLUBILITY IN WATER	: Soluble in water
PARTITION COEFFICIENT n-OCTANOL/WATER	: Not available
AUTOIGNITION TEMPERATURE	: Not available
DECOMPOSITION TEMPERATURE	: Not available

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	: Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	: No decomposition if used according to specifications
INCOMPATIBLE MATERIALS	: Keep away from strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	: No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	: Alcohols Ethoxylated
ACUTE TOXICITY	: LD50 Oral (rat): 1,378 mg/kg,
INHALATION LC50	: No data available.
DERMAL LD50	: LD50 Dermal (rat): > 5,000 mg/kg.
PRIMARY SKIN IRRITATION	: (Rabbit) Moderate to severely irritating.
PRIMARY EYE IRRITATION	: (Rabbit) Severely irritating.
TOXICOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ACUTE TOXICITY	: LD50 values: Oral LD50: 5152 mg/kg (rat). LC50 dermal and inhalation: Not listed. Eyes: Rabbit: Mild Irritation: 25 hours.
CARCINOGENICITY	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.
TOXICOLOGICAL INFORMATION	: Ethylene Glycol Butyl Ether
ACUTE ORAL TOXICITY	: LD50 Oral: 1,414 mg/kg Species: guinea pig Remarks: Ingestion may cause weakness, confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. LD50 Oral (rat): 1746 mg/kg.
ACUTE INHALATION TOXICITY	: LC50: ~ 932 ppm Exposure time: 4 HOURS Species: guinea pig Remarks: Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. May cause nausea. May cause headaches. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma. LC50 Inhalation (rat) 7hr: ~ 700 ppm.

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ACUTE DERMAL TOXICITY	: LD50: > 2,000 mg/kg Species: guinea pig Remarks: Minimal hazard by skin contact with liquid or vapor. This material may be absorbed through the skin. High dermal doses (most likely achieved from exposure to undiluted liquid) may cause weakness, headache, and nausea. Extensive and prolonged contact with skin may cause confusion, anxiety, decreased blood pressure, and CNS depression with collapse and coma.
IRRITATION	: Skin: Repeated or prolonged contact may cause skin irritation. Eyes: Moderate to severe eye irritant.
SENSITISATION	: Did not cause sensitization on lab animals.
CARCINOGENICITY	: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC, ACGIH, NTP, and OSHA.
TOXICOLOGICAL INFORMATION	: Ethylenediamine Tetraacetate
ACUTE TOXICITY	: LD50 Oral (rat): 630 - 1,260 mg/kg,
INHALATION LC50	: No data available
DERMAL LD50	: No data available
OTHER INFORMATION ON ACUTE TOXICITY	: No data available
TOXICOLOGICAL INFORMATION	: 5-Chloro-2-methyl-4-isothiazolin-3-one
ACUTE ORAL TOXICITY	: LD50 Oral (rat): 3810 mg/kg
ACUTE DERMAL TOXICITY	: LD50 Dermal (rabbit): >5000 mg/kg
ACUTE INHALATION TOXICITY	: LC50 Inhalation (male rat) 4hr: 1.4 mg/l. LC50 Inhalation (female rat) 4hr: 1.5 mg/l
IRRITANT/SENSITISATION EFFECTS	: Very hazardous in case of eye contact (irritant, corrosive). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (corrosive, irritant, sensitizer). Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure.
TARGET ORGAN EFFECTS	: May cause damage to the following organs: upper respiratory tract, skin, eyes.
OTHER HEALTH EFFECTS	: The following information is based on tests with one or more of the active ingredients. In vitro mutagenicity studies reported both positive and negative results. Animal tests for birth defects were negative. Chronic dietary and drinking water studies did not reveal any adverse effects. Repeated exposure to skin may cause allergic reactions. This product has caused allergic reactions in animal studies and has been reported to cause allergic reactions in people.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	: Alcohols Ethoxylated
ECOTOXICITY	: LC50 Rainbow Trout: 1-10 mg/l, 96hr. Value estimated from tests on similar products. LC50 Fathead Minow: 6 mg/l, 96hr. Value estimated from tests on similar products.
BIODEGRADABILITY	: Readily biodegradable.
PERSISTENCE AND DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION	: Dipropylene Glycol Methyl Ether
ECOTOXICITY (aquatic and terrestrial, where available):	
ACUTE FISH TOXICITY	: LC50 / 96 hours Fathead Minnow - >10,000 mg/L

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TOXICITY TO DAPHNIA	:	EC50 / 48 hours Water flea - 1,919 mg/L
PERSISTENCE AND DEGRADABILITY	:	No data available.
BIOACCUMULATIVE POTENTIAL	:	No data available.
ECOLOGICAL INFORMATION	:	Ethylene Glycol Monobutyl Ether
ECOTOXICITY	:	Fish: 96h LC50:>100 mg/L (Oryzias latipes) Crustacea: 48h EC50:>1000 mg/L (Daphnia magna) Algae: 72h EC50:630 mg/L (Selenastrum capricornutum)
PERSISTENCE AND DEGRADABILITY	:	96.0% (by BOD), 96.0% (by TOC), 100% (by GC).
MOBILITY IN SOIL	:	No data available.
ECOLOGICAL INFORMATION	:	Ethylenediamine Tetraacetate
ECOTOXICITY	:	No data available.
PERSISTENCE AND DEGRADABILITY	:	No data available.
BIOACCUMULATIVE POTENTIAL	:	No data available.
ECOLOGICAL INFORMATION	:	5-Chloro-2-methyl-4-isothiazolin-3-one
AQUATIC TOXICITY	:	LC50 = 0.16 mg/l 48 hours Daphnia magna LC50 = 0.28 mg/l 96 hours Bluegill sunfish. LC50 = 0.19 mg/l 96 hours Rainbow trout. LC50 = 0.3 mg/l 96 hours Sheepshead minnow. LC50 = 0.55 mg/l 96 hours Sand shrimp. LC50 = 1.9 mg/l 96 hours Bay mussel.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	:	This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.
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SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	:	Not Hazardous
HAZARD CLASS AND LABEL	:	Not Applicable.
UN NUMBER	:	Not Applicable.
PACKAGING GROUP	:	Not Applicable.
EPA REPORTABLE QUANTITY (RQ)	:	Not Applicable.
MARINE POLLUTANT	:	Not listed.
EMERGENCY RESPONSE GUIDE	:	Not Applicable.

SECTION 15 – REGULATORY INFORMATION

U.N. GHS CLASSIFICATION & LABELING INFORMATION: See Section 2 for GHS Hazard Information.

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN	:	Not listed.
TSCA STATUS	:	The ingredients of this product are listed in TSCA inventory (40CFR 710.)

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SARA SECTION 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA SECTION 312 : Chronic health hazard (Glycol Ether DPM).

SARA SECTION 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

NFPA HEALTH : 2

NFPA FLAMMABILITY : 0

NFPA REACTIVITY : 0

CANADIAN REGULATORY INFORMATION:

WHMIS CATEGORY : D2B: Materials that cause other toxic effects (TOXIC).



DOMESTIC SUBSTANCES LIST (DSL) : Listed

INGREDIENT DISCLOSURE LIST : Listed

SECTION 16 – OTHER INFORMATION

DISCLAIMER : 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. 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.

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act.

EINECS : European Inventory of Existing Commercial Chemical Substances

IMDG : International Maritime Code for Dangerous Goods

IARC : International Agency for Research on Cancer

IATA : International Air Transportation Association

ACGIH : American Conference of Governmental Industrial Hygienists

NFPA : National Fire Protection Association (USA)

NTP : National Toxicology Program

SARA : Superfund Amendments and Reauthorization Act

TSCA : Toxic Substances Control Act

HMIS : Hazardous Materials Identification System (USA)

WHMIS : Workplace Hazardous Materials Information System

LC50 : Lethal concentration, 50 percent

LD50 : Lethal dose, 50 percent

STOT : Systemic Target Organ Toxicity

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