SAFETY DATA SHEET
QUAKE HD

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME	:	QUAKE HD
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	:	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)	:		Not established
	:	H302	Harmful if swallowed.
	:	H315	Causes skin irritation.
	:	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+351+ 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	:	None.
TARGET ORGANS	:	Kidney, Liver, Nerves.
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

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EINECS #	GHS CLASSIFICATION
Potassium Hydroxide	0.1-1	1310-58-3	215-181-3	Metal Corr. Cat 1, Skin Corr. Cat. 1A Eye Dam. Cat. 1, Aquatic Acute Cat. 4
Sodium Tripolyphosphate	1-5	7758-29-4	231-838-7	Skin & Inhalation Irrit. Cat 4
Diethylene Glycol Monobutyl Ether	5-10	112-34-5	203-961-6	Eye Irrit Cat 2B
Sodium Dodecylbenzene Sulfonate	1-5	25155-30-0	246-680-4	Skin Irrit Cat 4, Eye Dam Cat 2 Acute Tox Cat 4, STOT-SE Cat 3
Laurydimethylamine Oxide	1-5	1643-20-5	216-700-6	Eye Irrit Cat 2B
Acrylate Copolymer	5-10	Trade Secret	N/A	Not classified under GHS

Irrit = Irritation, Corr = Corrosion, Cat = Category, Dam = Damage, Tox = Toxic, STOT SE = Single Target Organ Toxicity Single exposure.

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. Get immediate medical attention.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with soap and water. Delayed skin damage is possible if product is not completely washed off. 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.

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
Potassium Hydroxide	2 mg/m^3	Not Established	2 mg/m^3 (Ceiling)
Sodium Tripolyphosphate	Not Established	Not Established	Not Established
Diethylene Glycol Monobutyl Ether	Not Established	Not Established	Not Established
Sodium Dodecylbenzene Sulfonate	Not Established	Not Established	Not Established
Laurydimethylamine Oxide	Not Established	Not Established	Not Established
Acrylate Copolymer	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 light amber liquid with mild odor.

ODOR : Mild Odor

ODOR THRESHOLD : Not available

PH : 12.25 $\pm$ 0.25 AS IS

MELTING POINT/FREEZING : Not available

POINT		
BOILING POINT	:	Not available.
FLASH POINT	:	> 200° F.
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 DESNITY	:	1.05
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 CONDITONS 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 : **Potassium Hydroxide**

ACUTE TOXICITY : LD50 Oral (rat): 214 mg/kg, LD50 Dermal: Not Determined. LC50 Inhalation: Not determined.
When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact.

CARCINOGENICITY : This product is not classified as a carcinogen by NTP, IARC or OSHA.

TOXICOLOGICAL INFORMATION : **Sodium Tripolyphosphate**

ACUTE TOXICITY : Oral - rat LD50 - 5,400 mg/kg; practically non-toxic
Dermal - rabbit LD50 - > 7,940 mg/kg; practically non-toxic
Eye Irritation - rabbit - 3.3/110.0; slightly irritating
Skin Irritation - rabbit - 0-0/8.0 (24-hr exp.); not irritating
Inhalation - LC50 > 0.39 mg/L (rat, 4 hr) (maximum attainable concentration)

TOXICOLOGICAL INFORMATION : **Diethylene Glycol Monobutyl Ether**

ACUTE TOXICITY : Oral LD50 Oral (rat): 5560 mg/kg. LC50 dermal and inhalation: Not listed.

CHRONIC EFFECTS : Prolonged absorption causes liver and kidney damage, and red cell hemolysis (blood in urine) in laboratory animals; no such effects have been seen in humans

SENSITISATION : Not a sensitizer.

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	:	**Sodium Dodecylbenzene Sulfonate**
ACUTE TOXICITY	:	LD50 Oral rat: 438 mg/kg.
INHALATION TOXICITY	:	No data available
DERMAL TOXICITY	:	No data available
SKIN CORROSION/IRRITATION	:	Skin – rabbit Result: Skin irritation - 24 h
SERIOUS EYE DAMAGE/IRRITATION	:	Eyes – rabbit Result: Severe eye irritation - 24 h
RESPIRATORY/SKIN SENSITISATION	:	No data available
GERM CELL MUTAGENICITY	:	No data available
CARCINOGENICITY	:	No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible, or confirmed human carcinogen by IARC ACGIH, NTP or OSHA.

TOXICOLOGICAL INFORMATION	:	**Lauryldimethylamine Oxide**
ACUTE TOXICITY	:	LD50 Oral (Rat): >2000mg/kg, Skin (rabbit): Moderate to severe irritant, Eyes (rabbit): Severe irritant.
FURTHER INFORMATION	:	Information given is based on data on the components and the toxicology of similar products. No data is available on the product itself.

TOXICOLOGICAL INFORMATION	:	**Acrylate Copolymer**
ACUTE TOXICITY	:	Not determined. Similar products tested for LD50 limit value are greater than 10,000 mg/kg.
EFFECTS OF ACUTE EXPOSURE	:	Ingestion: Nausea may occur. Inhalation: Prolonged exposure may cause slight respiratory irritation. Skin Contact: Direct contact may cause slight irritation. Eye Contact: Direct contact may cause slight irritation.
EFFECTS OF CHRONIC EXPOSURE	:	No components of this product are listed as known or suspected carcinogens by IARC, NTP or OSHA.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	**Potassium Hydroxide**
AQUATIC TOXICITY	:	This material is alkaline and may raise the pH of surface waters with low buffering capacity. This material has exhibited moderate toxicity to aquatic organisms.
FRESHWATER FISH TOXICITY	:	LC50 (Mosquito fish): 80 mg/L/96 hr. (static bioassay in fresh water at 18-19 C) LC50 (Fathead Minnow): 179 mg/L/96 hr. (static at 22.3-24.7 C)
INVERTEBRATE TOXICITY	:	EC50 (Daphnia magna): 60 mg/L/48 hr. (static bioassay at 20.3-20.7 C)
FATE & TRANSPORT	:	This material will disassociate into ionic form in the aquatic environment. Natural carbon dioxide will slowly neutralize this material.
BIODEGRADATION		
BIOCONCENTRATION	:	This material does not bio-concentrate.
ADDITIONAL ECOLOGICAL INFORMATION	:	This material has exhibited slight toxicity to terrestrial organisms.

ECOLOGICAL INFORMATION	:	**Sodium Tripolyphosphate**
ECOTOXICITY	:	Invertebrate: 48-hr LC50 Daphnia magna: > 1000 mg/L; Practically Nontoxic 96 hr. LC 50 > 100 mg/L, non-toxic (Rainbow trout, Inland silversides, and mysid shrimp). [FMC I89-1081, 1082 & 1083] 48 hr. LC 50> 100 mg/L, non-toxic (Daphnia magna) [FMC I89-1084]
PERSISTENCE and DEGRADABILITY	:	No data available.
ENVIRONMENTAL FATE	:	Phosphates: Inorganic phosphates, including this product, at high concentrations in

the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.

ECOLOGICAL INFORMATION : **Diethylene Glycol Monobutyl Ether**
ECOTOXICITY : This product cannot accumulate in living tissue; diluted, this product is readily and rapidly in a wastewater treatment facility; in BOD test, 88% degraded in 28 says; half-life in air estimated as 10 hours.
PERSISTENCE AND DEGRADABILITY : No data available.

ECOLOGICAL INFORMATION : **Sodium Dodecylbenzene Sulfonate**
TOXICITY TO FISH : Mortality NOEC - Oncorhynchus kisutch - 3.1 mg/l - 3 d
Mortality LOEC - Oncorhynchus kisutch - 5.6 mg/l - 3 d
LC50 - Oncorhynchus mykiss (rainbow trout) - 3.2 - 5.6 mg/l - 96 h

ECOLOGICAL INFORMATION **Lauryldimethylamine Oxide**
ECOTOXICITY (Aquatic Toxicity): : LC50 Species: Brachy danio rerio (zebra fish) Concentration: 10,00 - 100,00 mg/l Exposure time: 96 h.
TOXICITY TO DAPHNIA / AQUATIC INVERTEBRATES : Immobilization EC50 Species: Daphnia magna (Water flea) Concentration: 4,40 mg/l Exposure time: 48 h.
BIODEGRADATION : This material is subject to biodegradation.
PERSISTENCE : This material is believed to persist in the environment.
BIOCONCENTRATION : This material is not expected to bio-concentrate in organisms.

ECOLOGICAL INFORMATION **Acrylate Copolymer**
ECOTOXICITY: : If this product becomes a waste, it will not exhibit the properties of ignitability, corrosivity, reactivity or environmentally persistent toxicity. The material should not be flushed into a sewer system. This product should not be released to the environment without chemical treatment.

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.

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.)
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

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION	:	Xi: Irritant
DSD/DPD RISK (R) PHRASES	:	R22: Harmful is swallowed. R36/38: Irritating to eyes and skin.
DSD/DPD SAFETY (S) PHRASES	:	S1/2: Keep locked up and out of reach of children. S24/25: Avoid contact with eyes and skin. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible. S61: Avoid release to the environment. S62: If swallowed, do not induce vomiting. S64: If swallowed, rinse mouth with water if victim is conscious.
DSD/DPD HAZARD SYMBOL	:	Xi: Irritant

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 realiable 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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