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: 11015 47TH AVE W, MUKILTEO, WA 98275

(425) 776-7272

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 : Not established

:

(GHS-US)

: 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+ IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

P312 unwell

: P302+P352 : IF ON SKIN: Wash with plenty of soap and water.

: P305+351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove

P338 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

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 as a hazardous chemical	
				under OSHA, GHS or DSD criteria.	

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
SPECIAL PROTECTIVE

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE

FIGHTERS

UNUSUAL FIRE AND EXPLOSION HAZARDS

: Dry chemical, foam, water or carbon dioxide.

: 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.

: 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 : All clean-up personnel must be properly trained. Confine the spill and remove

CONTAINMENT AND CLEAN-UP

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 : Store in

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

ODOR THRESHOLD : Not available PH : 12.25 ± 0.25 AS IS MELTING POINT/FREEZING : Not available

POINT

BOILING POINT

FLASH POINT : $> 200^{\circ}$ F.

EVAPORATION RATE Not available

FLAMMABILITY Non flammable-Non combustible

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 Not available PARTITION COEFFICIENT n-

OCTANOL/WATER

: Not available **AUTOIGNITION TEMPERATURE** DECOMPOSITION Not available

TEMPERATURE

SECTION 10 – STABILITY AND REACTIVITY

STABILITY Stable under recommended storage conditions. HAZARDOUS CONDITONS TO No decomposition if used according to specifications

AVOID

INCOMPATIBLE MATERIALS

HAZARDOUS DECOMPOSITION

PRODUCTS

Keep away from strong acids.

No dangerous decomposition products known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Potassium Hydroxide

: 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

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

TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

: **Sodium Tripolyphosphate**

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

ACUTE TOXICITY CHRONIC EFFECTS Diethylene Glycol Monobutyl Ether (DB)

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

Prolonged absorption causes liver and kidney damage, and red cell haemolysis (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** Eyes - rabbit Result: Severe eye irritation - 24 h

DAMAGE/IRRITATION **RESPIRATORY/SKIN**

SENSITISATION

No data available **GERM CELL MUTAGENICITY**

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.

: No data available

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

This material is alkaline and may raise the pH of surface waters with low buffering **AQUATIC TOXICITY**

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)

: EC50 (Daphnia magna): 60 mg/L/48 hr (static bioassay at 20.3-20.7 C) INVERTEBRATE TOXICITY **FATE & TRANSPORT** This material will disassociate into ionic form in the aquatic environment. Natural

BIODEGRADATION carbon dioxide will slowly neutralize this material.

This material does not bio-concentrate. **BIOCONCENTRATION**

ADDITIONAL ECOLOGICAL This material has exhibited slight toxicity to terrestrial organisms.

INFORMATION

ECOLOGICAL INFORMATION

ECOTOXICITY

Sodium Tripolyphosphate

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 schrimp). [FMC I89-1081, 1082 & 1083] 48 hr. LC 50> 100 mg/L, non-toxic (Daphnia magna)

[FMC 189-1084]

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

ECOTOXICITY

: Diethylene Glycol Monobutyl Ether (DB)

: 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

TOXICITY TO FISH

Sodium Dodecylbenzene Sulfonate

: 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

ECOTOXICITY (Aquatic Toxicity):

Lauryldimethylamine Oxide

LC50 Species: Brachydanio rerio (zebra fish) Concentration: 10,00 - 100,00 mg/l

Immobilization EC50 Species: Daphnia magna (Water flea) Concentration: 4,40 mg/l

Exposure time: 96 h.

TOXICITY TO DAPHNIA /

AQUATIC INVERTEBRATES

BIODEGRADATION

Exposure time: 48 h.This material is subject to biodegradation.

: This material is believed to persist in the environment.

BIOCONCENTRATION: This material is not expected to bio-concentrate in organisms.

ECOLOGICAL INFORMATION

ECOTOXICITY:

PERSISTENCE

Acrylate Copolymer

: 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.Not Applicable.Not Applicable.

PACKAGING GROUP

UN NUMBER

EPA REPORTABLE QUANTITY

(RO)

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: Listed

(DSL)

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. Wesmar Co. 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

DATE PREPARED : MAR 1, 2012 **DATE REVISED** : MAR 29, 2015