

SAFETY DATA SHEET

HYDRAFREE

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : HYDRAFREE
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Moderately Alkaline Material
SUPPLIER : HYDRAMASTER INC.
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) : 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 : Not applicable.
TARGET ORGANS : Not applicable.

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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 – COMPOSITION/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Sodium Tripolyphosphate	60-80	7758-29-4	231-838-7	Skin & Inhalation Irrit. Cat 4
Sodium Carbonate	1-5	497-19-8	207-838-8	Skin Irrit. Cat 2, Eye Irrit. Cat 2A
Sodium Bicarbonate	1-5	144-55-8	205-633-8	Skin Irrit. Cat 3, Eye Irrit. Cat 2B Acute Tox Cat 5
Sodium Metasilicate Pentahydrate	1-5	6834-92-0	229-912-9	Skin Corr: Cat 1C, Eye Corr. Cat 1
Diethylene Glycol Monobutyl Ether	1-5	112-34-5	203-961-6	Eye Irrit Cat 2B
Ethylenediamine Tetraacetate Tetrasodium salt	< 1	64-02-8	200-573-9	Skin Irrit Cat 2, Eye Dam Cat 2A
Sodium Percarbonate	1-5	15630-89-4	239-707-6	Ox Solid Cat 2, Skin Irrit Cat 4 Eye Dam Cat 1
Monosodium Phosphate Anhydrous	< 1	10049-21-5	231-449-2	Skin Irrit Cat 2, Eye Dam Cat 2A

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Tox = Toxic, Sens = Sensitization, Flam = Flammable, STOT-SE = Specific Target Organ Toxicity-Single Exposure, Inhal = Inhalation.

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.

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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
Sodium Tripolyphosphate	Not Established	Not Established	Not Established
Sodium Carbonate	Not Established	Not Established	Not Established
Sodium Bicarbonate	Not Established	Not Established	Not Established
Sodium Metasilicate Pentahydrate	8hr Recommended: 3mg/m ³	Not Established	Not Established
Diethylene Glycol Monobutyl Ether	Not Established	Not Established	Not Established
Ethylenediamine Tetraacetate Tetrasodium salt	Not Established	Not Established	Not Established
Sodium Percarbonate	Not Established	Not Established	Not Established
Monosodium Phosphate Anhydrous	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

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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 : White free flowing powder with mild odor.
ODOR : Mild odor
ODOR THRESHOLD : Not available
PH : 11.5 - 12.0 (2% solution)
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
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 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 SKIN CORROSION/IRRITATION SERIOUS EYE DAMAGE/IRRITATION : **Sodium Carbonate**
Not Classified. LD50 values: Oral LD50: 4090mg/kg (rat).
Causes skin irritation.
Causes serious eye irritation.

TOXICOLOGICAL INFORMATION : **Sodium Bicarbonate**

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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	:	Sodium Metasilicate Pentahydrate
ACUTE TOXICITY	:	LD50 Oral: 1280mg/kg (Rat), 2400mg/kg (mouse)
CHRONIC TOXICITY	:	No data were available regarding chronic exposure, reproductive or teratological effects, or carcinogenicity for sodium metasilicate.
CARCINOGENICITY	:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
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	:	Ethylenediamine Tetraacetate Tetrasodium Salt
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	:	Sodium Percarbonate
ACUTE TOXICITY	:	Acute oral toxicity (LD50): 2200 mg/kg [Mouse].
CHRONIC EFFECTS ON HUMANS	:	No data available
OTHER TOXIC EFFECTS ON HUMANS	:	Very hazardous in case of skin contact (irritant). Hazardous in case of ingestion, of inhalation. Slightly hazardous in case of skin contact (sensitizer).
SPECIAL REMARKS ON OTHER TOXIC EFFECTS ON HUMANS	:	Material is irritating to mucous membranes and upper respiratory tract.
TOXICOLOGICAL INFORMATION	:	Monosodium Phosphate Anhydrous
ACUTE ORAL TOXICITY	:	LD50 Oral (rat): 7100 mg/kg, LD50 Dermal (rabbit): > 7940 mg/kg, (Practically non-toxic)
SKIN AND EYE IRRITATION	:	Eye Irritation - rabbit: 1.3/110.0; practically non-irritating. Skin Irritation - rabbit: 0.0/8.0; non-irritating.
SYMPTOMS OF EXPOSURE	:	The dry powder or granules may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration.

SECTION 12 – ECOLOGICAL INFORMATION
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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	:	No data available.

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DEGRADABILITY	
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	: Sodium Carbonate
ECOTOXICITY	: LC50 Fishes 1: 300mg/L, EC Daphnia: 265mg/L, LC50 Fishes 2: 740mg/L.
PERSISTENCE and DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION	: Sodium Bicarbonate
ECOTOXICITY	: 7700 mg/L Fish Rainbow Trout 95 Hour(s) LC50 NDA 7100 mg/L Fish Bluegill Sunfish 95 Hour(s) LC50 NDA 4100 mg/L Water Flea Daphnia magna 48 Hour(s) EC50 NDA
PERSISTENCE and DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION	: Sodium Metasilicate
ECOTOXICITY (Aquatic Toxicity)	: This material has exhibited moderate toxicity to aquatic organisms.
BIODEGRADATION	: This material is inorganic and not 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	: 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.
ECOLOGICAL INFORMATION	: Ethylenediamine Tetraacetate Tetrasodium Salt
ECOTOXICITY	: No data available.
PERSISTENCE AND DEGRADABILITY	: No data available.
BIOACCUMULATIVE POTENTIAL	: No data available.
ECOLOGICAL INFORMATION	: Sodium Percarbonate
ECOTOXICITY	: Not available.
BOD5 AND COD	: Not available.
PRODUCTS OF BIODEGRADATION	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
TOXICITY OF THE PRODUCTS OF BIODEGRADATION	: The products of degradation are more toxic.
SPECIAL REMARKS ON THE PRODUCTS OF BIODEGRADATION	: Not available.
ECOLOGICAL INFORMATION	: Monosodium Phosphate Anhydrous
AQUATIC ORGANISM TOXICITY	: Invertebrate: 48-hr EC50 Daphnia magna: >1,000 mg/L; Practically nontoxic Warmwater fish: 96-hr. LC50 - Bluegill sunfish: 6,400 mg/L; Practically nontoxic Coldwater fish: 96-hr. LC50 - Rainbow trout: 3,200 mg/L; Practically nontoxic
ENVIRONMENTAL FATE	: No definitive algal toxicity or biodegradation data was available for this material.

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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 311/312 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 311/312.
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 : Non-Hazardous
DSD/DPD RISK (R) PHRASES : R22: Harmful if 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

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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 : E: Corrosive (Sodium Carbonate & Sodium Metasilicate)
D2B: Materials that cause other toxic effects (TOXIC): Sodium Carbonate.



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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