

SAFETY DATA SHEET

RED BREAK 1

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : RED BREAK 1
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) : 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+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

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
Potassium Hydroxide	1-5	1310-58-3	215-181-3	Metal Corr Cat 1, Skin Corr Cat. 1A Eye Dam Cat. 1, Aquatic Acute Cat. 4
Ethanol	10-20	64-17-5	200-578-6	Flam Liquid Cat 2, Eye Irrit Cat 2A, Acute Tox Aquatic Cat 2
Ammonium Hydroxide	0.1-1	1336-21-6	215-647-6	Skin Corr Cat 1B, Eye Dam Cat 1, Acute Tox Inhalation Cat 3, Acute Aquatic Tox Cat 1
Sodium Bisulfite	5-10	7631-90-5	231-548-0	Eye Irrit Cat 1, Acute Tox Oral Cat 4
Sodium Octane Sulfonate	1-5	5324-84-5	226-195-4	Skin Irrit Cat 2, Eye Irrit Cat 2A STOT SE Cat 3
Non-hazardous Acrylic Polymer	5-10	Trade Secret	N/A	Skin Irrit Cat 2, Eye Irrit Cat 2A

Irrit = Irritation, Cor = Corrosive, Dam = Damage, Cat = Category, Flam = Flammable, Tox = Toxic, STOT-SE = Specific Target Organ Toxicity-Single Exposure. Note: The Potassium Hydroxide and Ammonium Hydroxide are neutralized to non-hazardous pH levels.

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

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- 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 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 (Ceiling)	2mg/m ³	2mg/m ³ (Ceiling)
Ethanol	1000 ppm	1000 ppm	1000 ppm
Ammonium Hydroxide	50 ppm	25 ppm	35 ppm
Sodium Bisulfite	5 mg/m ³	5 mg/m ³	Not Established
Sodium Octane Sulfonate	Not Established	Not Established	Not Established
Non-hazardous Acrylic 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 with mild odor

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ODOR	: Mild odor
ODOR THRESHOLD	: Not available
PH	: 9.5 ± 0.5 AS IS
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	: 1.07
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	: Potassium Hydroxide
ACUTE TOXICITY	: Draize test, rabbit, skin: 50 mg/24H Severe; Oral, rat: LD50 = 273 mg/kg; LD50 values: Potassium Hydroxide: Oral (rat): 214 mg/kg. LC50 dermal and inhalation: Not listed.
EYE CONTACT	: Causes severe eye damage.
SKIN CONTACT	: Causes skin burns. Onset of symptoms may be delayed following exposure.
INHALATION	: Corrosive to respiratory tract.
INGESTION	: May be harmful if swallowed. Ingestion may cause chemical burns, pain, vomiting, difficulty breathing and other gastrointestinal effects.
CARCINOGENICITY	: The components of this product are not classified as carcinogenic by OSHA, NTP IARC or CA Prop 65.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	: Asthma and other respiratory conditions, skin disorders.
TOXICOLOGICAL INFORMATION	: Ethanol
ACUTE TOXICITY	: LD50 Oral (rat): 7060 mg/kg. LC50 Inhalation (rat) 4hr: 124.7 mg/L.
CARCINOGENICITY	: IARC, NTP and OSHA: Listed
TARGET ORGAN EFFECTS	: Acute: Central nervous system. Chronic: Liver
TOXICOLOGICAL INFORMATION	: Ammonium Hydroxide
ROUTES OF EXPOSURE	: Inhalation, ingestion, skin, eyes.

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SYMPTOMS OF EXPOSURE	:	Burning of the eyes, conjunctivitis, skin irritation, swelling of the eyelids and lips, dry red mouth, and tongue, burning in the throat, and coughing. In more severe cases of exposure, difficulty in breathing, signs, and symptoms of lung congestion, and, ultimately, death from respiratory failure due to pulmonary edema may occur
ACUTE TOXICITY	:	LD50 Oral (rat): 350 mg/kg.
CARCINOGENICITY	:	Not listed with IARC, NTP.
OSHA REGULATED	:	Yes
TOXICOLOGICAL INFORMATION	:	Sodium Bisulfite
ACUTE TOXICITY	:	Acute oral toxicity (LD50): 2000 mg/kg [Rat].
CHRONIC EFFECT ON HUMANS	:	(Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. May cause damage to the following organs: lungs, skin.
TOXICOLOGICAL INFORMATION	:	Sodium Octane Sulfonate
ACUTE TOXICITY IRRITATION	:	Inhalation may cause pain in respiratory system, sneezing coughing and difficulty in breathing.
INHALATION	:	
CARCINOGENICITY	:	This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
TOXICOLOGICAL INFORMATION	:	Non-hazardous Acrylic Copolymer
ACUTE TOXICITY	:	LD50 Oral (rat): 340mg/kg,
ACUTE EFFECTS	:	May cause significant irritation to the eyes. May cause significant irritation to the skin.
CARCINOGENICITY	:	No data available
MUTAGENICITY	:	Not reported to produce mutagenic effects on humans.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	Potassium Hydroxide
ECOTOXICITY	:	Fish: Mosquito Fish: LC50 = 80.0 mg/L; 24 Hr.; Unspecified No data available.
ENVIRONMENTAL	:	No information found.
PHYSICAL	:	No information found.
OTHER	:	No relevant information available.
PERSISTENCE AND DEGRADABILITY	:	No relevant information available.
BIOACCUMULATIVE POTENTIAL	:	No relevant information available.
NOTES	:	Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must no reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off larger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.
ECOLOGICAL INFORMATION	:	Ethanol
ECOTOXICITY	:	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
MOBILITY	:	This material is expected to have very high mobility in soil. It does not absorb to most soil types.
PERSISTENCE AND DEGRADABILITY	:	Biodegrades quickly
BIOACCUMULATIVE POTENTIAL	:	Bio-concentration is not expected to occur.
ECOLOGICAL INFORMATION	:	Ammonium Hydroxide

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ECOTOXICITY	:	Harmful to aquatic life in very low concentrations. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Do not contaminate any body of water by direct application, cleaning of equipment or disposal
ENVIRONMENTAL	:	Highly toxic to fishes. Toxic to invertebrates (Daphnia). May cause eutrophication. Highly toxic to plankton. pH shift. Inhibition of activated sludge
PERSISTENCE AND DEGRADABILITY	:	Not applicable.
ECOLOGICAL INFORMATION	:	Sodium Bisulfite
ECOTOXICITY	:	Not available.
PRODUCTS OF BIODEGRADATION	:	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
ECOLOGICAL INFORMATION	:	Sodium Octane Sulfonate
ACUTE TOXICITY FISH, DAPHNIA, BACTERIA	:	No ecological data available for this material.
ECOLOGICAL EFFECTS	:	Non-hazardous Acrylic Copolymer
ECOTOXICITY	:	This material may be harmful or fatal to contaminated plants or animals, especially if large volumes are released into the environments.
AQUATIC ECOTOXICITY	:	This product may be harmful or fatal to exposed aquatic life in low concentrations.

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.)
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 (None).
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

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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 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 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

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STOT : Systemic Target Organ Toxicity
DATE PREPARED : MAR 1, 2018
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