

Safety Data Sheet

RELEASE WITH OXYBREAK

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : RELEASE WITH OXYBREAK
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Moderately Acidic 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) : 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.
: P260 Do not breathe dust/fume/gas/mist/vapors/spray.
: 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 : Target Organ Effect (Glycol Ether DPM)
TARGET ORGANS : Kidney, Liver, Nerves (Glycol Ether DPM).

Safety Data Sheet

RELEASE WITH OXYBREAK

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
Hydrogen Peroxide	5-10	7722-84-1	231-633-2	Oxidizing Liquid Cat 1, Skin Corr Cat 1A Acute Tox Oral Cat 4, Acute Tox Inhal Cat 4
Dipropylene Glycol Methyl Ether	1-5	34590-94-8	262-104-2	Eye Irrit: Cat 2B, Combustible Liquid Cat 4
Propylene Glycol Butyl Ether	1-5	5131-66-8 & 15821-83-7	225-878-4	Skin Irrit Cat 2, Eye Irrit. Cat 2A, Combustible Liquid Cat 3
Aminotrimethylene Phosphonic Acid	1-5	6419-19-8	229-146-5	Metal Corr Cat 1, Eye Irrit Cat 2
Acrylate Copolymer(s)	10-20	Trade Secret	Trade Secret	Eye Irrit Cat 2A

Cat = Category, Corr = Corrosion, Irrit = Irritant, Dam = Damage, Tox = Toxicity, Inhal = Inhalation, STOT RE = Specific Target Organ Toxicity Repeated 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. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.

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. 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. If symptoms persist, 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 : Water spray, fog, carbon dioxide, foam, dry chemical

EXPLOSION HAZARDS : Product is not explosive.

REACTIVITY (FIRE) : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosive hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.

SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

PRECAUTIONARY MEASURES : Exercise caution when fighting any chemical fire.

FIREFIGHTING INSTRUCTIONS : Use water spray or fog for cooling exposed containers.

Safety Data Sheet

RELEASE WITH OXYBREAK

- PROTECTION DURING FIREFIGHTING** : Do not enter fire area without proper protective equipment, including respiratory protection.
- HAZARDOUS COMBUSTION PRODUCTS** : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Nitrogen oxides. Carbon oxides (CO, CO₂). Explosive Hydrogen gas.
- OTHER INFORMATION (FIRE)** : Do not allow run-off from fire fighting to enter drains or water courses.

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** : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink, or smoke when using this product. Wash hands and forearms thoroughly after handling.
- CONDITIONS FOR SAFE STORAGE** : Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat, and incompatible materials (Strong acid, Strong oxidizers).



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	USA OSHA PEL – TWA	USA ACGIH TWA	USA ACGIH – STEL
Hydrogen Peroxide	1.4 mg/m ³	1.4mg/m ³	1.4mg/m ³
Dipropylene Glycol Methyl Ether	100 ppm	100 ppm	150 ppm
Propylene Glycol Butyl Ether	Not Established	Not Established	Not Established
Aminotrimethylene Phosphonic Acid	Not Established	Not Established	Not Established
Acrylate Copolymer(s)	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

Safety Data Sheet

RELEASE WITH OXYBREAK

REQUIRED WORK/HYGIENE : immediate work area.
: 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 colorless liquid
ODOR : Mild odor
ODOR THRESHOLD : Not available
PH : 5.5 ± 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 : 1.04
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

REACTIVITY : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release explosion hydrogen gas. When heated to decomposition, emits toxic fumes. May be corrosive to metals.
STABILITY : Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID : Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials. Incompatible materials.
INCOMPATIBLE MATERIALS : Chlorinated products such as bleach, alkaline materials, metals, metal powder, carbides, chlorates, fumigates, nitrates, picrates, strong oxidizers, reducing or combustible organic material. Hazardous gases are evolved on contact with chemicals such as chlorine bleach, cyanides, sulfides and carbides.
HAZARDOUS DECOMPOSITION PRODUCTS : Carbon oxides (CO, CO₂). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION : **Hydrogen Peroxide**
EYE EFFECTS : 35% hydrogen peroxide: Extremely irritating/corrosive (rabbit).
SKIN EFFECTS : 35% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit).
ACUTE TOXICITY : DERMAL LD50: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit) [FMC Study Number: I83-746] ORAL LD50: 35% hydrogen peroxide: 1,193 mg/kg (rat) [FMC Study Number: I83-745] INHALATION LC50: 50% hydrogen peroxide: > 0.17 mg/l (rat) [FMC Study Number: I89-1080],

Safety Data Sheet

RELEASE WITH OXYBREAK

TARGET ORGANS	: Eyes, Nose Throat and Lungs.
ACUTE EFFECTS FROM OVER EXPOSURE	: Extremely irritating/corrosive to eyes and gastrointestinal tract. May cause irreversible tissue damage to the eyes including blindness. Inhalation of mist or vapors may be severely irritating to nose, throat, and lungs. May cause skin irritation.
CHRONIC EFFECTS FROM OVER EXPOSURE	: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a 'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).
CARCINOGENICITY	: IARC: Cat 3, NTP: Not listed, OSHA: Not listed, OTHER: ACGIH: Cat A3.
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	: Propylene Glycol Butyl Ether
ACUTE TOXICITY	: LD 50 Rat: 2,200 mg/kg
ACUTE INHALATION TOXICITY	: No data available
ACUTE DERMAL TOXICITY	: LD 50 Rabbit: 3,100 mg/kg
TOXICOLOGICAL INFORMATION	: Aminotrimethylene Phosphonic Acid
ACUTE ORAL TOXICITY	: Not harmful to aquatic organisms (short term and long-term exposure) ATMP can lead to growth inhibition in algae, but this effect is a consequence of the substance's complexation with essential nutrients and not of true toxicity.
TOXICOLOGICAL INFORMATION	: Non-hazardous copolymer
ACUTE ORAL TOXICITY	: LD50 Oral (rat): 5000 mg/kg, LD50 Dermal: No data available. LD50 Inhalation: No data available.
SKIN AND EYE IRRITATION	: No data available.
OTHER ADVERSE EFFECTS	: DELAYED (SUBCHRONIC AND CHRONIC) EFFECTS: IARC and NTP have Classified "strong inorganic acid mists containing Sulfuric acid" as known as human carcinogens. No definitive Casual relationship between sulfuric acid mist exposure and Respiratory cancer has been shown.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	: Hydrogen Peroxide
ECOTOXICOLOGICAL INFORMATION	: Channel catfish 96-hour LC50 = 37.4 mg/L Fathead minnow 96-hour LC50 = 16.4 mg/L Daphnia magna 24-hour EC50 = 7.7 mg/L Daphnia pulex 48-hour LC50 = 2.4 mg/L Freshwater snail 96-hour LC50 = 17.7 mg/L For more information refer to ECETOC "Joint Assessment of Commodity Chemicals No. 22, Hydrogen Peroxide." ISSN-0773-6339, January 1993
CHEMICAL FATE INFORMATION	: Hydrogen peroxide in the aquatic environment is subject to various reduction or oxidation processes and decomposes into water and oxygen. Hydrogen peroxide half-life in freshwater ranged from 8 hours to 20 days, in air from 10-20 hrs. and in soils from minutes to hours depending upon microbiological activity and metal contaminants.

Safety Data Sheet

RELEASE WITH OXYBREAK

ECOLOGICAL INFORMATION : **Dipropylene Glycol Methyl Ether**
ECOTOXICITY (aquatic and terrestrial, where available):
ACUTE FISH TOXICITY : LC50 / 96 hours Fathead Minnow - >10,000 mg/L
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 : **Propylene Glycol Butyl Ether**
ECOTOXICITY: TOXICITY TO FISH : No data available
TOXICITY TO DAPHNIA : No data available
TOXICITY TO ALGAE : No data available
TOXICITY TO BACTERIA : No data available

ECOLOGICAL INFORMATION : **Aminotrimethylene Phosphonic Acid**
AQUATIC TOXICITY : Not available
PERSISTENCE AND DEGRADABILITY : Neither readily nor inherently biodegradable. Partially photodegradable over short time.
BIOACCUMULATIVE POTENTIAL : Not potentially bioaccumulative. (Log KOW = -3.35).
NOTES :

ECOLOGICAL INFORMATION : **Non-hazardous copolymer**
AQUATIC ORGANISM TOXICITY : Contains no substances known to be hazardous to the environment or not degradable in wastewater treatment plants.
ECOTOXICITY FRESHWATER FISH : LC50: 32.7 mg/L: Gambusia affinis 96h.
PERSISTENCE AND DEGRADABILITY : No data available.
BIOACCUMULATION : No data available.
MOBILITY IN SOIL : No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATIONS : 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.

ECOLOGY-WASTE MATERIALS : This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14 – TRANSPORTATION INFORMATION

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

Safety Data Sheet

RELEASE WITH OXYBREAK

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN	:	Not listed
TSC STATUS	:	The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)
SARA SECTION 302	:	None
SARA SECTION 311/312	:	Immediate (acute) health hazard. (Glycol Ether DPM).
HAZARD CLASS	:	
SARA SECTION 313	:	Not Listed
NFPA HEALTH	:	2
NFPA FLAMMABILITY	:	0
NFPA REACTIVITY	:	0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION	:	C: Corrosive, Xn: Harmful.
DSD/DPD RISK (R) PHRASES	:	R34: Causes severe burns. R22: Harmful if swallowed.
DSD/DPD SAFETY (S) PHRASES	:	S1/2: Keep locked up and out of reach of children. S18: Handle and open containers with care. 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. S64: If swallowed, rinse mouth with water if victim is conscious.
DSD/DPD HAZARD SYMBOL	:	C: Corrosive, Xn: Harmful



CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY	:	Class E: Corrosive, Class D2B: Materials that cause other toxic effects (TOXIC).
DOMESTIC SUBSTANCES LIST (DSL)	:	Listed
INGREDIENT DISCLOSURE LIST	:	Listed, this product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all the information required by the CPR.



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

Safety Data Sheet
RELEASE WITH OXYBREAK

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	: DEC 29, 2018
DATE REVISED	: NOV 7, 2022