

Safety Data Sheet

RUSTBREAK

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME : RUSTBREAK
SYNONYMS : Product is a mixture: No synonyms are available.
PRODUCT USE : Mildly 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 : H301 Toxic 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) : H301 Toxic 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+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.

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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 #	EC #	GHS CLASS
Dipropylene glycol methyl ether	1-5	34590-94-8	252-104-2	Eye Irrit: Cat 2B
Ammonium Hydrogen Difluoride	1-5	1341-49-7	215-676-4	Skin Corr Cat 1B, Eye Dam Cat 1 Acute Oral Toxicity Cat 3
Alcohols Ethoxylated	1-5	68439-46-3	Not Found	Eye Irrit Cat 2B

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.
PROTECTION DURING FIREFIGHTING : Do not enter fire area without proper protective equipment, including respiratory protection.
HAZARDOUS COMBUSTION : Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides.

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PRODUCTS 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 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
Dipropylene glycol methyl ether	100 ppm, 600mg/m ³	100 ppm	150 ppm
Ammonium Hydrogen Difluoride	2.5 mg/m ³	2.5 mg/m ³	Not Established
Alcohols Ethoxylated	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.

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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	: Clear liquid with mild odor.
ODOR	: Mild odor
ODOR THRESHOLD	: Not available
PH	: 5-6
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	: 1.01
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, CO ₂). Thermal decomposition generates: Corrosive vapors. Toxic gases. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

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	: Ammonium Hydrogen Difluoride
ACUTE TOXICITY	: Eyes, Skin, Ingestion, Inhalation: Not available LD50 Oral (rat): 60 mg/kg.
CARCINOGENICITY (IARC)	: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Ammonium Bifluoride).

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CARCINOGENICITY	:	No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, ACGIH, OSHA
CHRONIC TOXICITY	:	Causes damage to following organs: lungs, mucous membranes.
TOXICOLOGICAL INFORMATION	:	Alcohols Ethoxylated
ACUTE TOXICITY	:	LD50 Oral (rat): 1,378 mg/kg,
INHALATION LC50	:	No data available.
DERMAL LD50	:	LD50 Dermal (rat): > 5,000 mg/kg.
PRIMARY SKIN IRRITATION	:	(Rabbit) Moderate to severely irritating.
PRIMARY EYE IRRITATION	:	(Rabbit) Severely irritating.

SECTION 12 – ECOLOGICAL INFORMATION

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	:	Ammonium Hydrogen Difluoride
AQUATIC TOXICITY	:	LC50 Fish 237 mg/L.
ENVIRONMENTAL FATE	:	No information found
ECOLOGICAL INFORMATION	:	Alcohols Ethoxylated
ECOTOXICITY	:	LC50 Rainbow Trout: 1-10 mg/l, 96hr. Value estimated from tests on similar products. LC50 Fathead Minnow: 6 mg/l, 96hr. Value estimated from tests on similar products.
BIODEGRADABILITY	:	Readily biodegradable.
PERSISTENCE AND DEGRADABILITY	:	No data available.
BIOACCUMULATIVE POTENTIAL	:	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
HAZARD CLASS AND LABEL	:	N/A
UN NUMBER	:	N/A
PACKAGING GROUP	:	N/A
EPA REPORTABLE QUANTITY (RQ)	:	N/A

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MARINE POLLUTANT : N/A
EMERGENCY RESPONSE GUIDE : N/A

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.
HAZARD CLASS
SARA SECTION 313 : Not Listed
NFPA HEALTH : 2
NFPA FLAMMABILITY : 0
NFPA REACTIVITY : 0

CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY : 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
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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