

**Material Safety Data Sheet  
RELEASE W/ OXYBREAK**

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**SECTION I – PRODUCT IDENTIFICATION**

**PRODUCT NAME:** ..... RELEASE W/ OXYBREAK  
**CHEMICAL FAMILY:** ..... PEROXIDE CLEANER  
**FORMULA:** ..... N/A  
**CAS NUMBER:** ..... N/A

**SECTION III – COMPOSITION, INFORMATION ON INGREDIENTS**

**THRESHOLD LIMIT VALUE:**.. N/A

COMPONENT	PERCENT	CAS #	ACGIH/TWA	STEL/TLV
Hydrogen peroxide	5-10	7727-84-1	1 ppm	NOT EST.
Dipropylene glycol methyl ether	1-5	34590-94-8	100 ppm	150 ppm
Propylene glycol butyl ether	1-5	5131-66-8	NOT EST.	NOT EST.

Also contains proprietary polymers and surfactant(s).

**SECTION II – HAZARDOUS IDENTIFICATION**

**EMERGENCY OVERVIEW:**

**EYES:** ..... May cause severe eye irritation with possible permanent eye damage and impairment of vision.

**SKIN (DERMAL):**..... Prolonged and/or repeated exposure to concentrated product may result in irritation to the skin.

**SWALLOWING (INGESTION):** Harmful if swallowed. Single dose oral LD50 has not been determined.

**INHALATION:**..... Vapors and mist may cause respiratory tract irritation.

**MEDICAL CONDITION AGGRAVATED**

**BY EXPOSURE:**..... Existing skin and/or respiratory disorders may be aggravated by exposure.

**CHRONIC OVEREXPOSURE:**.. None known

**OSHA REGULATORY STATUS:**Since this product is a mixture, there is no defined PEL's (Personal Exposure Limits) established by OSHA. ACGIH TLV's (Threshold Limit Values) for hazardous components are listed in the Hazardous Ingredients Section of this MSDS.

**SECTION IV – FIRST AID MEASURES**

**EYES:** ..... In case of contact, immediately flush eyes with lots of running water for at least 15 minutes. If irritation persists, get medical attention.

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**SKIN (DERMAL):**..... Wash with plenty of running water until no product residue remains. Wash contaminated clothing before reuse.

**SWALLOWING (INGESTION):** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.

**INHALATION:**..... Remove to fresh air. Give artificial respiration if not breathing. Obtain medical attention.

### SECTION V – FIRE FIGHTING MEASURES

**FLASHPOINT:**..... Non flammable, non combustible

**LOWER EXPLOSIVE LIMIT:**... N/A

**UPPER EXPLOSIVE LIMIT:**..... N/A

**EXTINGUISHING MEDIA:** ..... Use extinguishing media appropriate to primary cause of fire.

#### SPECIAL FIRE FIGHTING

**PROCEDURES:** ..... Avoid contact with fire fighting personnel as burns may result from contact with skin. when fighting a fire near or involving this product, wear a self-contained breathing apparatus. (SCBA)

#### UNUSUAL FIRE AND

**EXPLOSION HAZARDS:** ..... None known

### SECTION VI – ACCIDENTAL RELEASE MEASURES

**SPILL/ LEAK PROCEDURES:**.. Appropriate protective clothing must be worn by trained cleanup personnel. Dilute with large quantities of water and dispose in waste water treatment facilities. Check with local authorities first.

### SECTION VII – HANDLING AND STORAGE

**HANDLING INFORMATION:** .. Store away from acids, oxidizing compounds and other incompatible materials. Keep container tightly closed when not in use. KEEP OUT OF REACH OF CHILDREN.

**STORAGE REQUIREMENTS:**.. Keep containers tightly closed when not in use. Empty container completely and dispose of in accordance with applicable regulations. SPILLS: Contain spill. Absorb with inert material and dispose in accordance with applicable regulations. Store away from food production areas and food storage areas.

### SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

**EYE PROTECTION:**..... Chemical safety goggles. Contact lenses should not be worn when working with any chemicals.

**RESPIRATORY PROTECTION:**Respiratory protection should be worn if levels exceed defined PEL's for this product or any hazardous component listed in the Hazardous Ingredient Section of this MSDS.

#### OTHER PROTECTIVE

**EQUIPMENT:** ..... Rubber gloves, coveralls and protective footwear.

**VENTILATION:**..... Local exhaust sufficient to maintain TLV below permissible exposure limits.

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ADDITIONAL MEASURES: ..... Dipropylene Glycol Methyl Ether: OSHA/PEL = 600 mg/M<sup>3</sup> (100 ppm) Skin.

### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** ..... Clear liquid with mild odor.  
**BOILING POINT:**..... NOT EST.  
**VAPOR PRESSURE:** ..... NOT EST.  
**VAPOR DENSITY (AIR=1):**..... NOT EST.  
**SPECIFIC GRAVITY:**..... 1.04  
**pH:** 5.5 ± 0.5 AS IS  
**SOLUBILITY IN WATER:**..... Completely soluble in water.

### SECTION X – STABILITY AND REACTIVITY

**STABILITY:** ..... Stable  
**HAZARDOUS**  
**POLYMERIZATION:** ..... Will not occur  
**INCOMPATIBILITY:** ..... Strong oxidizing agent, strong acids.  
**HAZARDOUS**  
**DECOMPOSITION:** ..... Carbon monoxide and carbon dioxide upon thermal decomposition.

### SECTION XI – TOXICOLOGICAL INFORMATION

#### TOXICOLOGICAL

**INFORMATION:** ..... **DIPROPYLENE GLYCOL METHYL ETHER: Acute Toxicity:** Ingestion LD50, Rat 5135 mg/kg. Skin Absorption LD50, Rabbit > 20 ml/kg; Sensitization Skin: Did not cause allergic skin reactions when tested in humans. **Related Dose Toxicity:** In animals, effects have been reported on the following organs: Liver, Kidney. Symptoms of excessive exposure may be anesthetic or narcotic effects: dizziness and drowsiness may be observed. **Developmental Toxicology:** Did not cause birth defects or any other fatal effects in laboratory animals. **Genetic Toxicology:** In Vitro genetic toxicity studies were negative.  
**HYDROGEN PEROXIDE: Toxicological data**  
**Acute oral toxicity:** - LD50, rat, 1,232 mg/kg (H2O2 35 %)  
**Acute inhalation toxicity:** - LC50, 4 h, rat, 2,000 mg/m<sup>3</sup> (Hydrogen peroxide)  
**Acute dermal irritation/corrosion:** - LD50, rabbit, > 2,000 mg/kg (H2O2 35 %)  
**Skin irritation** - rabbit, Skin irritation (H2O2 35 %)  
**Eye irritation** - - Risk of serious damage to eyes. (H2O2 35 %)  
**Irritation (other route)** - Inhalation, mouse, Irritating to respiratory system., RD 50 = 665 mg/m<sup>3</sup> (Hydrogen peroxide)  
**Sensitisation** - guinea pig, Did not cause sensitization on laboratory animals.  
**Chronic toxicity** - Oral, Prolonged exposure, Various species, Target Organs: Gastrointestinal tract, observed effect - Inhalation, Repeated exposure, dog, Lowest observable effect level: 14.6 mg/m<sup>3</sup>, irritant effects  
**Carcinogenicity** - Oral, Prolonged exposure, mouse, Target Organs: duodenum, carcinogenic effects  
- Dermal, Prolonged exposure, mouse, Animal testing did not show any carcinogenic effects.

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### SECTION XII – ECOLOGICAL INFORMATION

#### ECOLOGICAL

**INFORMATION:** ..... **Dipropylene glycol methyl ether:** Persistence and Biodegradability: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches >70% mineralization in OECD test(s) for inherent biodegradability, Ecotoxicity: Material is practically non-toxic to aquatic organisms on an acute basis. (LC50/EC50L 100 mg/L in the most sensitive species tested.)

#### **HYDROGEN PEROXIDE Ecotoxicity effects**

**Acute toxicity** - Fishes, Pimephales promelas, LC50, 96 h, 16.4 mg/l - Fishes, Pimephales promelas, NOEC, 6 h, 5 mg/l - Crustaceans, EC50, 48 h, 2.4 mg/l - Crustaceans, NOEC, 48 h, 1 mg/l

**Chronic toxicity** - Molluscs, NOEC, 56 Days, 2 mg/l - Algae, Chlorella vulgaris, EC50, growth rate, 72 h, 4.3 g/l

- Algae, Chlorella vulgaris, NOEC, 72 h, 0.1 mg/l

**Mobility** - Air, Volatility, Henry's law constant (H) = 1 Pa.m<sup>3</sup>/mol Conditions: 20 °C Remarks: not significant - Air, condensation on contact with water droplets Remarks: rain washout – Water Remarks: The product evaporates slowly. - Soil/sediments Remarks: non-significant evaporation and adsorption

**Persistence and degradability: Abiotic degradation** - Air, indirect photo-oxidation, t 1/2 from 16 - 20 h. Conditions: sensitizer: OH radicals. - Water, redox reaction, t 1/2 from 25 - 100 h. Conditions: mineral and enzymatic catalysis, fresh water - Water, redox reaction, t 1/2 from 50 - 70 h Conditions: mineral and enzymatic catalysis, salt water - Soil, redox reaction, t 1/2 from 0.05 - 15 h Conditions: mineral catalysis

**Biodegradation** - aerobic, t 1/2 < 2 min Conditions: biological treatment sludge Remarks: Readily biodegradable.

- aerobic, t 1/2 from 0.3 - 5 d Conditions: fresh water Remarks: Readily biodegradable. – anaerobic Remarks: not applicable - Effects on waste water treatment plants, Inhibitor > 30 mg/l Remarks: inhibitory action

**Bioaccumulative potential** - Bioaccumulative potential Result: Does not bioaccumulate. **Other adverse effects** - no data available.

### SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:**..... Consult all LOCAL, STATE, and FEDERAL regulations with regard to proper and suitable disposal methods.

### SECTION XIV – TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** ..... N/A

**HAZARD CLASS AND LABEL:** NON HAZARDOUS

**UN NUMBER:** ..... N/A

**PACKAGING GROUP:** ..... N/A

### SECTION XV – REGULATORY INFORMATION

**LISTED CARCINOGEN:**..... None known

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**TSCA STATUS:**..... All components in this product are listed on the TSCA inventory.  
**SARA SECTION 313:** ..... This product **does not** contain any EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning Community Right-To-Know Act of 1986 (40CFR 372):  
**NFPA HEALTH:** ..... 2  
**NFPA FLAMMABILITY:**..... 0  
**NFPA REACTIVITY:**..... 0

**R-PHRASES:** ..... R36: Irritating to eyes R38: Irritating to skin R20: Harmful if swallowed  
**S-PHRASES:**..... S24/25: Avoid contact with skin, eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

**CANADIAN WHMIS:**..... This MSDS has ben prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.  
**CANADIAN DSL:** ..... (Domestic Substances List)

<b>SECTION XVI – OTHER INFORMATION</b>
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**REFERENCES:** ..... 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. HYDRAMASTER CORP. assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. 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.

**FOOT NOTES:** ..... NOT EST. = Not Established, N/A = Not Applicable, (Ceil) = TLV ceiling limit.