



<p style="text-align: center;">MATERIAL SAFETY DATA SHEET PeridoxRTU™</p>

MSDS Ref. # 000101
Version: US/Canada
Date Approved: June 28, 2009
Revision No.: 00002

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: PERIDOXRTU™

SYNONYM(s): Hydrogen Peroxide, Hydroperoxide for first component;
Peracetic Acid, Peroxyacetic Acid for second component

REGISTRATIONS: EPA Registration No.: 81073-3

MANUFACTURER: CET, LLC.
13695 Rider Trail North
St. Louis, Missouri 63045
Emergency Phone: 314-222-4640 (7:00am-4:30pm, CST)

2. COMPOSITION AND HAZARDOUS INGREDIENTS:

Chemical Name	CAS #	Average Concentration		Exposure Limits
		Range; Wt%		
Hydrogen Peroxide	7722-84-1	4.0-4.8%		1ppm (TWA) ACGIH; 1ppm PEL (1.4mg/m ³) OSHA
Peroxyacetic Acid	79-21-0	0.17-0.29%		None established
Other		less than 1.0%		None established
Water (Reverse Osmosis/De-ionized)	7732-18-5	Balance		

3. PHYSICAL DATA:

ODOR:	Pungent, vinegar-like odor
APPEARANCE:	Colorless with slight gray tinge
pH @ 20°C:	2.1 – 2.2
SOLUBILITY:	100% in water
SPECIFIC GRAVITY:	1.02 g/ml, 8.5 lbs/gal
PERCENT VOLATILES:	>99%
VISCOSITY	1 cps

4. HANDLING AND STORAGE

HANDLING: Store containers in upright position only. Empty containers as thoroughly as possible. Rinse thoroughly with water before disposal. Avoid contamination; impurities accelerate decomposition. Never return product to original container.

STORAGE: Store in original containers in a cool, dry area, away from direct sunlight. Do not allow product to become overheated in storage. Avoid storage temperature above 30°C, 86°F. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water.

VENTILATION: Store and use in well ventilated areas.

5. SPILL AND LEAK PROCEDURES

Ventilate the space involved. Small spills may be flushed to an approved sewer line with generous amounts of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Wear appropriate personal protective equipment as specified in Section 6-B. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Small amounts of residue may be flushed to sewer with plenty of water. Consult a regulatory specialist to determine appropriate state and local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

6. FIRST AID MEASURES:

Colorless Liquid with sharp odor

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or physician for treatment advice.

INGESTION (If Swallowed): Call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

PERSONAL PROTECTIVE EQUIPMENT:

EYES AND FACE: Wear protective eyewear such as goggles, face shield, or safety glasses.

RESPIRATORY: Use only in well-ventilated areas

PROTECTIVE CLOTHING: Use of rubber or neoprene gloves is recommended.

7. FIRE FIGHTING MEASURES

FLAMMABLE LIMITS: Not available

EXTINGUISHING MEDIA: Use water to keep fire exposed containers cool.

FIRE FIGHTING PROCEDURES: Use flooding quantities of water only. Use water spray to keep fire exposed containers cool. Fight fire from protected location or maximum distance. Chemical type extinguishers are not effective with peracetic acid or hydrogen peroxide, which are ingredients in this product. Use personal protective equipment and positive pressure self-contained breathing apparatus.

FIRE POINT- No fire point. This material will not sustain a flame.

EXPLOSION- This product is not considered to be an explosion hazard. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may cause fire or explosion.

SENSITIVITY TO STATIC DISCHARGE: Not available.

SENSITIVITY TO IMPACT: Not available.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxygen that supports combustion, acetic acid, carbon monoxide, and carbon dioxide.

8. TOXICOLOGICAL INFORMATION

EYE EFFECTS: Severe Irritant.

SKIN EFFECTS: Aceto-whitening of skin may occur, which is expected to return to normal in less than an hour.

DERMAL LD₅₀: >5000mg/kg (male and female rats) for PeridoxRTU™.

ORAL LD₅₀: Estimated > 5000mg/kg (rats) for PeridoxRTU™.

INHALATION LC₅₀: >2.21mg/L for PeridoxRTU™.

TARGET ORGANS: Eyes, skin, nose, throat, lungs

ACUTE EFFECTS FROM OVEREXPOSURE: No data available for this product. Liquid may cause irreversible tissue damage to eyes. Inhalation of vapors may cause lacrimation and irritation of the mucous membranes, eyes, and nasal passages. Persons with asthma or susceptibility to asthma-like symptoms or with impaired or compromised respiratory function should avoid exposure.

CHRONIC EFFECTS FROM OVEREXPOSURE: No data available for this product. Product contains hydrogen peroxide. There are reports of limited evidence of carcinogenicity of hydrogen peroxide to mice administered high concentrations in their drinking water (IARC Monograph 36, 1985). The U.S. Federal Drug Administration has concluded that there is insufficient evidence of carcinogenicity and the International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to its carcinogenicity to humans (Group 3).

CARCINOGENICITY:

<u>Chemical Name</u>	<u>NTP Status</u>	<u>IARC Status</u>	<u>OSHA Status</u>	<u>Other</u>
Hydrogen Peroxide	Not listed	IARC Group3 Listed	Not Listed	ACGIH (A3, Animal

9. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data available for this product.

CHEMICAL FATE INFORMATION: No data available for this product. Hydrogen peroxide and peracetic acid are completely miscible with water. Aqueous solutions of peracetic acid hydrolyze to acetic acid and hydrogen peroxide. Aqueous solutions of hydrogen peroxide degrade to oxygen and water.

10. TRANSPORT INFORMATION

DOT – Not Regulated

11. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40CFR355): Peracetic Acid: RQ = 500 lbs; Hydrogen Peroxide: TPQ = 1,000 lbs, RQ =1,000 lbs.

SECTION 302.4 REPORTABLE QUANTITY (40CFR 355) The following is the ingredient that is listed:

<u>Chemical Name</u>	<u>RQ</u>
Peroxyacetic Acid	500 lbs.

SECTION 311 HAZARD CATEGORY (40 CFR 370): Fire Hazard, Immediate (Acute) Health Hazard

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370): 500 lbs for Peroxyacetic Acid; 10,000 lbs for < 52% Hydrogen Peroxide

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372): Listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA REGULATORY (40 CFR 302.4): Listed (Acetic Acid =5,000 lbs), Category D.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS (40 CFR 710): Listed

RCRA STATUS: Not regulated

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):

Hazard Classification: Class D2B.

Ingredient Disclosure List: Listed (Hydrogen Peroxide, Peroxyacetic Acid, Acetic Acid)

12. RATINGS:

HMIS® (Hazardous Materials Identification System) NFPA® RATING

HEALTH:	3	HEALTH	3
FLAMMABILITY	0	FLAMMABILITY	0
PHYSICAL HAZARD	0	REACTIVITY	0
PERSONAL PROTECTION (PPE)	D	SPECIAL	

Key

4= Severe

3= Serious

2= Moderate

1= Slight

0= Minimal

HMIS RATINGS NOTES: Protection=D (= face shield, gloves, chemical apron)

HMIS® is registered trademark of the National Paint and Coating Association.

NFPA® is a registered trademark of the National Fire Protection Association.

The contents and format of this MSDS are in accordance with OSHA Hazard Communication Standard and Canada's Workplace Hazardous Materials Information System (WHMIS).

CET, LLC believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be applicable where such product is used in combination with any other materials or in any

process. It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of CET, LLC, CET, LLC expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

For Internal Document Control

MSDS Approval: on file
Signature

Approval Date: June 28, 2009

Jeffry Golden
Print Name

Managing Member
Title