

Apple Environmental

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2401 South 2700 West, Unit B
Salt Lake City, UT 84119
U.S.A.

TELEPHONE: (801) 871-5906 FAX: (801) 660-1596
Email: products@appleenvironmental.com

EMERGENCY TELEPHONE NUMBERS:

(800) 535-5053 United States
(352) 323-3500 international calls

SAFETY DATA SHEET

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SECTION 1 ----- PRODUCT / COMPANY IDENTIFICATION-----

Product number: 1501 & 2005
Product name: Apple Environmental Meth Remover Part 1 & Part 2
Class stabilized peroxide in water
Distributed by Apple Environmental

SECTION 2 -----HAZARD IDENTIFICATION-----



Physical State: Liquid
Color: Colorless
Odor: Amine like

Skin corrosion/irritation – Category 2
Serious eye damage/eye irritation – Category 2
Oxidizing Liquids – Category 3

Emergency Overview **Warning!**

Causes skin irritation. Causes serious eye irritation. May cause or intensify fire; oxidizer.

Wash thoroughly after handling. Wear protective gloves and eye/face protection. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Keep away from heat. Keep/Store away from combustible material. Take any precaution to avoid mixing with combustibles. In case of fire: Use CO₂, dry chemical, or foam for extinction. Dispose of contents/ container to an approved waste disposal plant.

Other Information

Toxic to aquatic organisms.
May be harmful to environment if released in large amounts.
Decomposes yielding oxygen that supports combustion of organic matters and can cause overpressure if confined.

Routes of Entry: Absorbed through skin. Dermal contact, eye contact. See Toxicological Information (Section 11)

POTENTIAL HEALTH EFFECTS: Minimally irritating to the eyes and mildly irritating to skin.

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SECTION 3 ----- COMPOSITION / INFORMATION ON INGREDIENTS-----

<u>Components</u>	<u>CAS #</u>	<u>Percent</u>
Disodium Carbonate	497-19-8	<1%
Ethanol	64-17-5	<1%
Stabilized Hydrogen Peroxide	7722-84-1	1-5%
Water based buffer	7732-18-5	>70%

The exact percentage (concentration) of composition has been withheld as a trade secret

SECTION 4 -----FIRST AID MEASURES-----

Eye Contact:	Check for and remove contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Get medical attention.
Skin Contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. See a medical doctor immediately.
Medical conditions Aggravated by Overexposure:	Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION 5 -----FIRE FIGHTING MEASURES -----

EXTINGUISHING MEDIA: Flood with water.

FIRE / EXPLOSION HAZARDS: Product is non-combustible. On decomposition releases oxygen which may intensify fire.

FIRE FIGHTING PROCEDURES: Any tank or container surrounded by fire should be flooded with water for cooling. Wear full protective clothing and self-contained breathing apparatus.

FLAMMABLE LIMITS: Non-combustible

SENSITIVITY TO IMPACT: No data available

SENSITIVITY TO STATIC DISCHARGE: No data available

SECTION 6 -----ACCIDENTAL RELEASE MEASURES-----

RELEASE NOTES: Contain spill. Use absorbents. Dilute with a large volume of water and hold in a pond or diked area until product decomposes. Dispose according to methods outlined for waste disposal. Combustible materials exposed to hydrogen peroxide should be immediately submerged in or rinsed with large amounts of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

SECTION 7 ----- HANDLING AND STORAGE-----

HANDLING: Wear chemical splash-type mono-goggles and full-face shield, impervious clothing, such as rubber, PVC, etc., and rubber or neoprene gloves and shoes. Avoid cotton, wool and leather. Avoid excessive heat and contamination. Contamination may cause decomposition and generation of oxygen gas which could result in high pressures and possible container rupture. Hydrogen peroxide should be stored only in vented containers and transferred only in a prescribed manner.

Never return unused product to original container, empty drums should be triple rinsed with water before discarding. Utensils used for handling hydrogen peroxide should only be made of glass, stainless steel, aluminum or plastic.

STORAGE: Store containers/drums in cool areas out of direct sunlight and away from combustibles. Store container in a segregated, approved and well ventilated area.

COMMENTS: VENTILATION: Provide mechanical general and/or local exhaust ventilation to prevent release of vapor or mist into the work environment.

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SECTION 8 -----EXPOSURE CONTROL / PERSONAL PROTECTION-----

EXPOSURE LIMITS

<u>Chemical Name</u>	<u>ACGIH</u>	<u>OSHA</u>
Hydrogen Peroxide	1 ppm (TWA)	1 ppm (PEL)

ENGINEERING CONTROLS: Ventilation should be provided to minimize the release of hydrogen peroxide vapors and mists into the work environment. Spills should be minimized or confined immediately to prevent release into the work area. Remove contaminated clothing immediately and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Use chemical splash-type monogoggles to prevent eye contact during handling of product.

RESPIRATORY: If concentrations in excess of 10 ppm are expected, use NIOSH/DHHS approved self-contained breathing apparatus (SCBA), or other approved atmospheric-supplied respirator (ASR) equipment (e.g., a full-face airline respirator (ALR)). DO NOT use any form of air-purifying respirator (APR) or filtering facepiece (AKA dust mask), especially those containing oxidizable sorbants such as activated carbon.

PROTECTIVE CLOTHING: Rubber or neoprene footwear (avoid leather). Impervious clothing materials such as rubber, neoprene, nitrile or polyvinyl chloride (avoid cotton, wool and leather). Completely submerge hydrogen peroxide contaminated clothing or other materials in water prior to drying. Residual hydrogen peroxide, if allowed to dry on materials such as paper, fabrics, cotton, leather, wood or other combustibles can cause the material to ignite and result in a fire.

GLOVES: Wear chemical resistant gloves when handling. Thoroughly rinse the outside of gloves with water prior to removal. Inspect regularly for leaks

SECTION 9 -----PHYSICAL AND CHEMICAL PROPERTIES-----

ODOR: Amine like
 APPEARANCE: Colorless liquid
 AUTOIGNITION TEMPERATURE: Non-combustible
 BOILING POINT: 101°C (214°F)
 COEFFICIENT OF OIL / WATER: Not available
 DENSITY / WEIGHT PER VOLUME: Not available
 EVAPORATION RATE: Above 1 (Butyl Acetate = 1)
 FLASH POINT: Non-combustible
 FREEZING POINT: 28 °C
 ODOR THRESHOLD: Not available
 OXIDIZING PROPERTIES: Not applicable
 PERCENT VOLATILE: 100%
 pH: (as is) approx. 10.5
 SOLUBILITY IN WATER: 100%
 SPECIFIC GRAVITY: 1.1
 VAPOR DENSITY: (Air = 1): Not available
 VAPOR PRESSURE: Not available

SECTION 10 -----STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID:	Excessive heat or contamination could cause product to become unstable.
STABILITY:	Stable (contamination could cause decomposition)
POLYMERIZATION:	Will not occur
INCOMPATIBLE MATERIALS:	Reducing agents, iron and other heavy metals, galvanized iron, copper alloys and caustic. Reacts with strong acids to produce moderate heat.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxygen which supports combustion. Possible oxides of carbon and nitrogen and chloride salts. COMMENTS: Materials To Avoid: Dirt, organics and combustibles.

SECTION 11 -----TOXICOLOGICAL INFORMATION-----

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<u>Ingredient Name of Product Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Ethanol	LD50	7060 mg/kg	Oral	Rat
	LD50	6300 mg/kg	Oral	Rabbit
	LD50	3450 mg/kg	Oral	Mouse
	LDLo	1400 mg/kg	Oral	Human
	LdLo	5500 mg/kg	Oral	Dog
	LC50	20000 ppm (10 hours)	Inhalation	Rat

Chronic Effects on Humans Carcinogenic Effects: Classified none. By NIOSH (ethanol). Classified A4 (Not classifiable for Human or animal.) by ACGIH (ethanol).

Developmental Toxicity: Classified Reproductive system/toxin/female. Reproductive system/
Toxin/male (PROVEN) (ethanol).

Acute Effects Skin Moderately irritating to the skin.

EYE EFFECTS: 5% hydrogen peroxide: Minimally irritating (rabbit) [FMC Study Number: I86-0949]

SKIN EFFECTS: 10% hydrogen peroxide: Mildly irritating after 4-hour exposure (rabbit) [FMC Study Number: I89-1078]

DERMAL LD50: 35% hydrogen peroxide: > 2,000 mg/kg (rabbit) [FMC Study Number: I83-746]

ORAL LD50: 10% hydrogen peroxide: > 5,000 mg/kg (rat) [FMC Study Number: I89-1077]

INHALATION LC50: 50% hydrogen peroxide: > 0.17 mg/l (rat) [FMC Study Number: I89-1080]

ACUTE EFFECTS FROM OVEREXPOSURE: Minimally irritating to the eyes, skin, nose, throat, and lungs.

CHRONIC EFFECTS FROM OVEREXPOSURE: 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:

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

SECTION 12 -----ECOLOGICAL INFORMATION-----

Ecotoxicity

<u>Ingredient Name or Product Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
Ethanol	Daphnia magna (EC50)	48 hour(s)	2 mg/l
	Daphnia magna (EC50)	48 hour(s)	9.3 mg/l
	Daphnia magna (EC50)	48 hour(s)	>100 mg/l
	Pimephales promelas (LC50)	96 hour(s)	>100 mg/l
	Daphnia magna (LC50)	96 hour(s)	>100 mg/l
	Oncorhynchus mykiss (LC50)	96 hour(s)	13000 mg/l

Biodegradability and Ecotoxicity Remarks

Products of Degradation

Proprietary Component: 43% @ Day 28; 60% @ Day 112

These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...), Chloride compounds.

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. Degrades in the atmosphere within the light spectrum with hydroxyl radicals in the gas phase and subsequent photolysis.

SECTION 13 -----DISPOSAL CONSIDERATIONS-----

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DISPOSAL METHOD: An acceptable method of disposal is to dilute with a large amount of water and allow the hydrogen peroxide to decompose followed by discharge into a suitable treatment system in accordance with all regulatory agencies. The appropriate regulatory agencies should be contacted prior to disposal. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

RCRA Classification: Non hazardous

Container Disposal: Non-refillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse empty container with water. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

SECTION 14 -----TRANSPORTATION INFORMATION-----

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING NAME: Not regulated, DOT non hazardous. No specified shipping or handling requirements under 49 CFR Section 172.

PRIMARY HAZARD CLASS / DIVISION: Not applicable

UN/NA NUMBER: None

LABEL(S): Not applicable

PLACARD(S): Not applicable

ADDITIONAL INFORMATION:

DOT Marking: Not applicable

Hazardous Substance/RQ: Not applicable

49 STCC Number: Not applicable under 49 CFR Section 172.

SECTION 15 -----REGULATORY INFORMATION-----

U.S. Federal Regulations

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):

Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370):

Not applicable

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.: None, (conc. <52%)

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

Not listed

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT)

CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4):

Not listed

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA INVENTORY STATUS (40 CFR 710):

Listed

HAZARD, RISK AND SAFETY PHRASE DESCRIPTIONS:

Hydrogen Peroxide, (Index #008-003-00-9):

EC Symbols:	Xi	(Irritant)
EC Risk Phrases:	R36	(Irritating to eyes.)
EC Safety Phrases:	S1/2	(Keep locked up and out of reach of children.)
	S3	(Keep in a cool place.)
	S17	(Keep away from combustible material.)
	S26	(In case of contact with eyes, rinse immediately with plenty of water and seek medical advice)
	S28	(After contact with skin, wash immediately with plenty of water and soap.)
	S36/37/39	(Wear suitable protective clothing, gloves and eye/face protection.)
	S45	(In case of accident or if you feel unwell, seek medical advice immediately - show the label where possible.)

SECTION 16 -----OTHER INFORMATION-----

Hazardous Material Information System (U.S.A.):

Health	1
Fire Hazard	0
Physical Hazards	0

National Fire Protection Association (U.S.A.):

Health	1
Flammability	0
Reactivity	0

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Personal Protection (PPE) H

Special

None

Degree of Hazard Code:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

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Phone Number: (801) 871-5906

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