

ENVIRONMENTAL TECHNOLOGY, INC.; SOUTH BAY DEPOT ROAD; FIELDS LANDING, CA 95537
EMERGENCY PHONE NUMBER: (707) 443-9323
TRANSPORTATION EMERGENCY PHONE NUMBER: CHEMTREC (800) 424-9300

CAT No's: 46398, 46361
PRODUCT NAME: CATALYST

60494-00
-01 ✓

33520-0020
-1003

MATERIAL SAFETY DATA SHEET

HMS Rating: Health=3*, Flammability=2, Reactivity=2
*For acute and chronic health effects refer to the discussion in Section III

polyester catalyst Section 1. Product Identification

Product Name Catalyst
Chemical Family Organic Peroxide

Section 2-A. Hazardous Ingredients

No.	Ingredient Name	CAS Number	Percentage
1	Methyl Ethyl Ketone Peroxide **	1338-23-4	34.5%
2	Dimethylphthalate **	131-11-3	35.0%
3	Hexylene Glycol **	107-41-5	6.0%
4	Methyl Ethyl Ketone **	78-93-3	3.0%

This MSDS is prepared to comply with the OSHA Hazard Communication Standard (29 CFR 1910.1200). Proprietary ingredients are considered to be trade secrets of Environmental Technology, Inc. Identities of proprietary ingredients will be made available following the procedures specified in the trade secret section of this standard. These chemicals are subject to the reporting requirements of Section 313 of SARA Title III.

Section 2-B. Acute Toxicity Data

No.	Acute Oral LD50	Acute Dermal LD50	Acute Inhalation LC50
1-4	681 mg/Kg (rat)	Not Available	33 mg/l (4 hours-rats)

Data obtained on 11% active oxygen material. Should be similar.

V1478

Section 3. Health Information

The health effects noted below are consistent with requirements under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Eye Contact: Believed to be extremely irritating with possible permanent eye injury.
Skin Contact: Not established.
Inhalation: May cause irritation of upper respiratory tract. Prolonged or repeated exposure may cause skin sensitization or other allergic response.
Ingestion: Not available.
Aggravated Medical Conditions: Not available.
Other Health Effects: Not available.

Section 4. Occupational Exposure Limits

No.	OSHA		ACGIH		
	PEL/TWA	PEL/Ceiling	TLV/TWA	TLV/STEL	Other
1	Not established	0.7 ppm	Not available	Not available	
2	5 ng/m ³	Not established	Not available	Not available	
3	Not established	25.0 ppm	Not available	Not available	
4	200 ppm	Not established	Not available	300 ppm	

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 Section 5. Emergency And First Aid Procedures

Eye Contact: Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. GET IMMEDIATE MEDICAL ATTENTION.
Skin Contact: Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. GET IMMEDIATE MEDICAL ATTENTION. Do not reuse clothing until cleaned.
Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. If patient is not breathing, apply artificial respiration. GET IMMEDIATE MEDICAL ATTENTION.
Ingestion: DO NOT INDUCE VOMITING. Vomiting will cause further damage to the throat. Dilute by giving water or milk to drink if patient is conscious. GET IMMEDIATE MEDICAL ATTENTION.

 Section 6. Supplemental Health Information

Suspected Cancer Agent No

 Section 7. Physical Data

Boiling Point (Deg. F) Not available
 Melting Point (Deg. F) < -30
 Evaporation Rate (n-Butyl Acetate = 1) Not available
 Specific Gravity (H2O = 1) 1.08
 Solubility (in water) Slightly soluble
 Vapor Pressure (mm Hg) Not determined
 Vapor Density (Air = 1) Not determined
 Appearance And Odor Clear oily liquid, ketone odor

 Section 8. Fire And Explosion Hazards

Flash Point And Method > 100 Deg. F (Unknown)
 Flammable Limits, Percent Volume In Air
 Lower Not determined
 Upper Not determined
 Extinguishing Media: Use water fog, foam, dry chemical, or carbon dioxide (CO2).
Special Fire Fighting Procedures And Precautions: Toxic fumes will be evolved when this material is involved in a fire. Do NOT enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed containers with water.
Unusual Fire And Explosion Hazards: Contamination and temperature - can decompose with force if confined during exposure to fire.

 Section 9. Reactivity

Stability Unstable
 Hazardous Polymerization Will not occur
Conditions And Materials To Avoid: Reacts vigorously with strong oxidizing agents, strong acids, strong alkalis, acetone, transition metal salts, promoters, and reducing agents. Reacts violently with contamination, heat, flames, sparks, and ignition sources. See Section 12.
Hazardous Decomposition Products: Decomposition products are flammable and may autoignite.

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 Section 10. Employee Protection

Respiratory Protection: NIOSH approved respiratory protection required in the absence of proper environmental control. For emergencies, a self-contained breathing apparatus or full-face respirator is recommended.

Ventilation: Breathing of vapors must be avoided. Ventilation must be sufficient to control vapors. This material should be confined as far as possible within sealed or covered equipment in which case normal ventilation should be adequate. Special (local) ventilation will be needed in areas where vapors are expected to be vented. Provide sufficient mechanical ventilation to maintain exposure below TLV(s).

Protective Clothing: Avoid contact with skin. Wear impervious gloves made of neoprene or rubber. Wear a clean, body-covering clothing. Further safety equipment (apron, footwear, etc.) should be used as necessary to prevent contact with the material. Avoid contact with the eyes. Wear splash-proof goggles or safety spectacles with sides.

 Section 11. Environmental Protection

Spill Or Leak Procedures: May burn although not readily ignitable. Use cautious judgement when cleaning up large spills.

Large Spills: Wear respirator and protective clothing as appropriate. Shut off source of leak if safe to do so. Dike and contain. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; dispose of properly. Flush area with water, being certain that this diluted material is not flushed into storm drains or water supplies.

Small Spills: Take up with an absorbent material and dispose of properly.

 Section 12. Special Precautions

WARNING! COMBUSTIBLE. Wash thoroughly after handling. Do not get in eyes, on skin, or clothing. Do not store near combustibles. Empty container may contain hazardous residues. Keep container closed. Keep away from heat, sparks, and flames.

Do not reuse container.

Store below 100 Deg. F to maintain active oxygen content, preferably between 65-85 Deg. F

 Section 13. Transportation Requirements

Department of Transportation Information:

D.O.T. Shipping Name Consumer Commodity

D.O.T. Hazard Class ORM-D

 Section 14. Special Notes

See product Environmental Data Sheet (EDS) for waste disposal and other environmental information.

ENVIRONMENTAL DATA SHEET

 Section 1. Product Composition

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1	Methyl Ethyl Ketone Peroxide	1338-23-4	34.5%
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Section 2. SARA Title III Information

No.	EHS RQ (lbs.) (#1)	EHS TPQ (lbs.) (#2)	Section 313 (#3)	313 Category (#4)	311/312 Categories (#5)
1			Yes	Not applicable	Unknown
2			Yes	Not applicable	Unknown
3			Yes	Not applicable	Unknown
4			Yes	Not applicable	Unknown

- #1 = Reportable quantity of extremely hazardous substance, Sec. 302.
- #2 = Threshold planning quantity, extremely hazardous substance, Sec. 302.
- #3 = Toxic Chemical, Sec. 313.
- #4 = Category as required by Sec. 313 (40 CFR 372.65 C). Must be used on toxic release inventory forms.
- #5 = Hazard Category for SARA Sec. 311/312 reporting.

HEALTH:

H-1 = Immediate (acute) health hazard.
 H-2 = Delayed (chronic) health hazard.

PHYSICAL:

P-3 = Fire Hazard
 P-4 = Sudden release of pressure hazard.
 P-5 = Reactive Hazard

Section 3. Environmental Release Information

Not available.

Section 4. RCRA Information

Waste Disposal Method: Under EPA-RCRA (40 CFR 261.21), if this product becomes a waste material, it would be ignitable hazardous waste, Hazardous Waste Number D001. Refer to latest EPA or state regulations regarding proper disposal.

Date Revised: January 1, 1992

Preparer's Name Dave Fonsen

DISCLAIMER

All information, recommendations, and suggestions appearing herein concerning our product are based upon tests and data believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his or her own use of the product described herein. Since the actual use by others is beyond Environmental Technology, Inc.'s control, no guarantee, expressed or implied, is made by Environmental Technology, Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product.