

MATERIAL SAFETY DATA SHEET

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Section 1. Chemical Product and Company Identification

Product Code BOX32-128"1	
Product Name BOX OXIDE REMOVER	
Manufacturer's Name Mark V Laboratory, Inc.	Emergency Telephone Number CHEMTREC 800-424-9300
Address (Number, Street, City, State, and ZIP Code) 18 Kripes Road	Telephone Number For Information (860) 653-7201
Post Office Box 540	Date Prepared July 1, 2013
East Granby, Connecticut 06026	Signature of Preparer (optional)

Section 2. Composition / Information on Ingredients

Component	CAS Registry #	wt. %	Exposure Limits	
			ACGIH TLV	OSHA PEL
Citric Acid	77-92-9	< 11.0	n/e	n/e
Ammonium Hydroxide	1336-21-6	< 2.0	50ppm	50ppm

Section 3. Hazards Identification

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EMERGENCY OVERVIEW

CAUTION: Causes eye and skin irritation. Avoid breathing vapors. Clear, pink liquid, odorless.

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POTENTIAL HEALTH EFFECTS:

EYE CONTACT: May cause irritation experienced as discomfort or pain, excess blinking and tear production, with redness and swelling of the conjunctiva.

INHALATION: Vapor may cause irritation of the respiratory tract.

SKIN CONTACT: May cause mild slight irritation. Prolonged or repeated contact may cause Defatting or drying of skin.

INGESTION: May cause nausea, vomiting, and diarrhea.

CHRONIC/LONG TERM EFFECTS: No data.

OVEREXPOSURE: Ingestion may cause nausea, vomiting and diarrhea. Prolonged dermal Exposure may cause drying of the skin

TARGET ORGAN EFFECTS: No data

REPRODUCTIVE/DEVELOPMENTAL: No data

CARCINOGENIC: Not listed by IARC, NTP, or OSHA

Product: OXIDE REMOVER

Section 4. First Aid Measures

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Get medical attention if irritation persists.

SKIN CONTACT: Flush skin with plenty of water for 15 minutes. Get medical attention

INGESTION: Give large quantities of water or milk. Induce vomiting. Get medical attention.

Section 5. Fire Fighting Measures

FLAMMABLE PROPERTIES:

FLASH POINT: None

METHOD USED: N/A

FLAMMABLE LIMITS

LFL: N/A

UFL: N/A

EXTINGUISHING MEDIA: Use appropriate measures for combating surrounding fire

FIRE & EXPLOSION HAZARDS: N/A

FIRE FIGHTING INSTRUCTIONS: Wear a self contained breathing apparatus with a full face piece operated in the positive pressure mode. Chemical resistant PPE is recommended

Section 6. Accidental Release Measures

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (dry sand, earth). Prevent runoff from entering drains, sewers or bodies of water

Section 7. Handling and Storage

Follow all MSDS/label precautions even after container is emptied. Use with adequate ventilation. Do not get in eyes, on skin or clothing.

Section 8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: Good general ventilation required

RESPIRATORY PROTECTION: Organic vapor and particulate cartridge as required

SKIN PROTECTION: Impervious gloves clothing and boots

EYE PROTECTION: Safety glasses or goggles

Product: OXIDE REMOVER

Section 9. Physical and chemical Properties

APPEARANCE:	Clear, pink liquid	PHYSICAL STATE:	Liquid
BOILING POINT:	>212 Deg F	SOLUBILITY in WATER:	Complete
EVAPORATION RATE:	(Butyl Acetate=1) N/E	SPECIFIC GRAVITY:	(H2O=1) 1.055
FREEZING POINT:		VAPOR DENSITY:	(Air=1) N/E
MELTING POINT:	N/A	VAPOR PRESSURE:	(mmHg) N/E
MOLECULAR WEIGHT:		VISCOSITY:	
ODOR:	odorless	% VOLATILE:	
pH:	3.0 (concentrate)		

Section 10. Stability and Reactivity**CHEMICAL STABILITY:** Stable**INCOMPATIBILITY:** High temperature, Strong acids, oxidizers**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO2**HAZARDOUS POLYMERIZATION:** Will not occur**Section 11. Toxicological Information**

No data.

Section 12. Ecological Information**ECOTOXICOLOGICAL INFORMATION:**

No data.

Section 13. Disposal Considerations

Dispose of waste according to local, state and federal regulations.

Product: OXIDE REMOVER

Section 14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: N/A
TECHNICAL SHIPPING NAME: N/A
D.O.T. HAZARD CLASS:
U.N. / N.A. NUMBER:
PRODUCT RQ (LBS):
D.O.T. LABEL:
D.O.T. PLACARD:
FREIGHT CLASS BULK:
FREIGHT CLASS PACKAGE:
PRODUCT LABEL: BOX-32 - 128

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: Yes

TSCA STATUS: The intentional ingredients of product are listed

CERCLA REPORTABLE QUANTITY: N/A

SARA TITLE III:

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: YES

SECTION 311/312 HAZARDOUS CATEGORIES: Acute

SECTION 313 TOXIC CHEMICALS: YES

RCRA STATUS: Determined by user

CALIFORNIA PROPOSITION 65: YES

Section 16. Other Information

NOTE: The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any other process is the responsibility