

HMIS RATINGS:  
 Health : 1  
 Flammability : 0  
 Reactivity : 0  
 Personal Protection: B

Section 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: OR - OXIDE REMOVER	Emergency Telephone Number: (416)910-3087
Chemical Family : Alkaline cleaner	Date Prepared Jan 4, 2011
Company Identification: CRYSTAL ELECTRONICS INC	MFGD. BY: TIDOL
2-1251 Gorham St	120-2A McLevin Ave
Newmarket, ON L3Y 8Y6	Scarborough, ON M1B 3E9.
905 953-9129	416 293-2244

Section 2: COMPOSITION, INFORMATION ON INGREDIENTS

CAS NUMBER	CHEMICAL NAME	% BY WGHT.	OSHA PEL/ ACGIH TLV	SARA 302/ 304(1)*	SARA 313 (2)*	STATE INFO(3)(4)	CERCLA RQ
77-92-9	Citric Acid	< 11.0	n/e / n/e	NO	NO	NO	
1336-21-6	Ammonium Hydroxide	< 2.0	50 ppm / 50 ppm	NO	YES	NO	1000 lbs

\* See Section 15 for more information n/e = none established - n/a = not applicable

Section 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION. Causes eye and skin irritation. Avoid breathing vapors.  
 Clear, red liquid; cherry scented

Primary Route of Entry: Eye contact, skin contact, inhalation  
 Acute/Potential Health Effects

EYES: May cause irritation to the eyes experienced as discomfort or pain with excess blinking and tear production and redness or swelling of the conjunctiva.

SKIN: May cause mild skin irritation. Prolonged or repeated contact may cause defatting or drying of skin.

INHALATION: Vapor may cause irritation of the respiratory tract.

INGESTION: May cause nausea, vomiting and diarrhea.

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Section 3: HAZARDS IDENTIFICATION - continued:  
Chronic / Long Term Effects: No data.

Signs and Symptoms of Overexposure:  
Ingestion may cause nausea, vomiting and diarrhea.  
Prolonged dermal exposure may cause drying of the skin.

Target Organ Effects:  
No data.

Reproductive/Developmental Information:  
No data.

Carcinogenic Information:  
This material is not listed as a carcinogen by IARC, NTP or OSHA.

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Section 4: FIRST AID MEASURES

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

SKIN: Flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

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

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

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Section 5: FIRE FIGHTING MEASURES

Flash Point: No flash by standard methods

Extinguishing Media: Use appropriate methods for combatting surrounding fire.

Special Fire Fighting Instructions: Wear a self contained breathing apparatus with a full face piece operated in the positive pressure demand mode.

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Section 6: ACCIDENTAL RELEASE MEASURES

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth). Eliminate all ignition sources. Prevent runoff from entering drain, sewers, streams or other bodies of water. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

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Section 7: HANDLING AND STORAGE

Follow all MSDS/label precautions even after container is emptied because they may contain product residues. Use with adequate ventilation. Do not get in eyes or on skin. Store in a cool, dry place. Keep container closed when not in use. Keep out of reach of children.

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Section 8: EXPOSURE CONTROLS and PERSONAL PROTECTION

Eye Protection: Wear safety glasses or goggles. Remove contacts.

Skin Protection: To prevent repeated or prolonged contact, wear impervious gloves (made from rubber, nitrile or neoprene).

Respiratory Protection: When respiratory protection is required, use an ammonia cartridge. A respiratory program that meets OSHA's 29 CFR 1910.34 & ANSI Z88.2 requirements must be followed.

Engineering Controls: Use general ventilation.

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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor :Clear, red or crimson liquid; cherry scented.  
pH Concentrate :3.0  
Solubility in Water : Complete  
Vapor Pressure [mmHg] :n/e  
Evaporation Rate (Butyl Acetate=1) :n/a  
Vapor Density [Air=1] :n/e  
Specific Gravity [H2O=1] :1.055  
Boiling Point :>212 F

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Section 10: REACTIVITY

Stability Stable  
Hazardous Polymerization :Will not occur  
Conditions to avoid :High temperature  
Hazardous Decomposition Products: CO, CO2  
Incompatibility :Strong acids, oxidizers

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Section 11: TOXICOLOGICAL INFORMATION

No data

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Section 12: ECOLOGICAL INFORMATION

No data

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Section 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method:  
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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Section 14: TRANSPORTATION INFORMATION

D.O.T. Shipping Name / Class:  
Not regulated.

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Section 15: REGULATORY INFORMATION

U.S. Federal Regulations:  
TSCA (Toxic Substances Control Act):The intentional ingredients of product are listed.  
Title III Section 311/312 Hazardous Categories - 40 CFR 370.2:

ACUTE ( ) Chronic ( ) Fire ( ) Pressure ( ) Reactive ( ) Not Applicable ( )  
1) Title III Section 302/304 Extremely Hazardous Substances - 40 CFR 355 Appendix A  
(2) Title III Section 313 Toxic Chemicals - 40 CFR 372.65

If indicated under Section 2 of this MSDS, this product contains toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right to Know Act of 1986. This information must be included in all MSDS that are copied and distributed for this material.

RCRA Status: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. If this product becomes a hazardous waste it would be assigned RCRA Code(s)  
None

State and Local Regulations: Certain states maintain their own ingredient lists which differ slightly from the Federal standards. If indicated under Section 2 of this MSDS, states listed below may have regulations on ingredients contained in this product. Check with your state for any additional regulations.

- (3) California proposition 65 (Safe Drinking Water & Toxic Enforcement Act of 1986)
- (4) Massachusetts (Hazardous Substance Disclosure by Employers)

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Section 16: OTHER INFORMATION

This information was compiled from current manufacturer's MSDS's of the component parts of the product.

Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.