

ARDROX® 321-NVersion 1.1
Revision Date 11/23/2006

Print Date 01/15/2007

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ARDROX® 321-N
 MSDS Number : REL_200244

Company : OAKITE PRODUCTS INC
 675 Central Avenue
 New Providence, NJ 07974

Telephone : +18005264473
 Telefax : +19084644658
 Emergency telephone no : CHEMTREC - 800-424-9300

SECTION 2. HAZARDOUS COMPONENTS INFORMATION

Component	CAS-No.	Weight %
2-Butoxy ethanol	111-76-2	1.00 - 10.00

Unidentified ingredients are considered not hazardous under Federal Hazard Communication Standard (29CFR 1910.1200).

SECTION 3. HAZARDS IDENTIFICATION**Emergency Overview**

Form : liquid
 Colour : blue green
 Odour : mild
 Hazard Summary : Repeated or prolonged exposure may cause irritation of eyes and skin. Also harmful by inhalation.

Route(s) of Entry	Inhalation	Skin	Ingestion
	yes	yes	yes

Carcinogenicity:

NTP No substance in this product is listed by NTP as a carcinogen
 IARC No substance in this product is listed by IARC as a carcinogen
 OSHA No substance in this product is regulated by OSHA as a carcinogen

SECTION 4. FIRST AID MEASURES

Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention.

Skin contact : Flush skin with large amounts of water. If irritation develops

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and persists, get medical attention.

Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

Ingestion : Rinse mouth. Drink plenty of water. Obtain medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Flash point : Note: does not flash

Lower explosion limit : Note: not applicable

Upper explosion limit : Note: not applicable

TDG Flammability Class : NONE

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up : Cover with absorbent or contain. Collect and dispose. Flush with water.

Additional advice : Never return spills in original containers for re-use.

SECTION 7. HANDLING AND STORAGE

Storage

Requirements for storage areas and containers : Keep containers tightly closed to avoid contamination. Store indoors in a cool, well-ventilated place.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	ACGIH TLV (TWA)	OSHA PEL (TWA)
2-Butoxy ethanol	20 ppm	50 ppm

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	N.D.	N.D.
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Eye protection	:	safety glasses with side-shields
Hand protection	:	impervious gloves
Skin and body protection	:	rubber or plastic apron
Respiratory protection	:	No personal respiratory protective equipment normally required. If the occupational exposure limits cannot be met, suitable respiratory equipment should be worn .
Hygiene measures	:	Avoid contact with skin, eyes and clothing Wear suitable gloves and eye/face protection Wear suitable protective clothing Wash hands before breaks and immediately after handling the product Provide adequate ventilation Do not inhale fumes Keep away from food and drink

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH	:	7 Note: +/- 0.5
Melting point/range	:	0 °C (0 °C)
Boiling point/range	:	Note: no data available
Vapour pressure	:	Note: no data available
Bulk density	:	8.69 lb/gal
Water solubility	:	Note: completely soluble
Partition coefficient (n-octanol/water)	:	Note: no data available
Percent of Volatile by Weight excluding water	:	8.9
Relative density	:	1.043
Evaporation rate	:	1 Note: Water = 1

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SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Heat, flames and sparks.

Materials to avoid : strong acids and strong bases
oxidizing agents

Hazardous decomposition products : carbon monoxide
carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity: : Mixture; Not Determined.

Acute oral toxicity
2-Butoxy ethanol : LD50, rat
Dose: 1,480 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Advice on Disposal : Refer to applicable local, state and federal regulations as well as industry standards.

SECTION 14. TRANSPORT INFORMATION

Refer to Bill of Lading.

SECTION 15. REGULATORY INFORMATION

TSCA Status : All components of this material are on the US TSCA Inventory.

SARA 313 Components : 2-Butoxy ethanol CAS-No. 111-76-2
SARA 313 Components : N.D.

CERCLA Reportable Quantity : N.D.

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California Prop. 65	:	N.D
NFPA	:	1 1 0
HMIS	:	1 1 0 C
WHMIS	:	D2B: Toxic Material Causing Other Toxic Effects

SECTION 16. OTHER INFORMATION**Further information**

Oakite Products, Inc. warrants that the products described herein will conform with its published specifications. The products supplied by Oakite and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Oakite materials for their own particular purpose. Since buyer's conditions of use of products are beyond Oakite's control, Oakite does not warrant any recommendations and information for the use of such products. OAKITE DISCLAIMS ALL OTHER WARRANTIES INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE IN CONNECTION WITH THE USE OF ITS PRODUCTS.