

Version 1.6
Revision Date 04/19/2011

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Oakite® 33
 MSDS Number : REL_0330
 Company : Chemetall US, 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 percent
Trade Secret Registry	735517-5097P	1.00 - 5.00
Phosphoric acid	7664-38-2	50.00 - 60.00
2-Butoxy ethanol	111-75-2	10.00 - 20.00

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

SECTION 3. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid
 Colour : tan
 Odour : mild
 Hazard Summary : Harmful by inhalation and if swallowed. Causes severe burns.

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 to fresh air. If symptoms persist, call a physician. If breathing is irregular or stopped, administer artificial respiration.

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- Skin contact : Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Get medical attention immediately if irritation develops and persists.
- Eye contact : Rinse immediately with plenty of water for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately.
- Ingestion : Rinse mouth. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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 : Dry chemical
Carbon dioxide (CO2)
Foam
Water spray
- Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Ensure adequate ventilation.
- Methods for cleaning up : Ventilate area.
Neutralize with lime milk or soda and flush with plenty of water.
Clean up with inert absorbant material.
Keep in suitable, closed containers for disposal.
Flush with plenty of water.
- Additional advice : Never return spills in original containers for re-use.

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SECTION 7. HANDLING AND STORAGE

Handling

Handling : Add this product to surface of solution slowly to avoid spattering
Do not add large amounts of product to solution at any one time.
Use only with adequate ventilation.

Storage

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Component	ACGIH TLV (TWA)	OSHA PEL (TWA)
Trade Secret Registry	NONE	NONE
Phosphoric acid	1 mg/m3	1 mg/m3
2-Butoxy ethanol	20 ppm	50 ppm

Eye protection : Chemical resistant goggles must be worn.
Face-shield

Hand protection : Impervious gloves

Skin and body protection : Rubber or plastic apron

Respiratory protection : If the occupational exposure limits cannot be met, suitable respirator equipment shall 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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

pH : < 2.5

Melting point/range : -12 °C (10 °F)

Boiling point/boiling range : Note: no data available

Vapour pressure : Note: no data available

Bulk density : 11.2 lb/gal

Water solubility : Note: completely soluble

Partition coefficient: n-octanol/water : Note: no data available

Percent of Volatile by Weight excluding water : 17.5

Relative density : 1.345

Evaporation rate : 1
Note: Water = 1

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : freezing

Materials to avoid : Bases
Warning! Do not use together with other products, which may release dangerous gases (chlorine).

Hazardous decomposition products : Carbon dioxide (CO₂)
Carbon monoxide
Hydrogen, by reaction with metals
Oxides of phosphorus.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity : Mixture; Not Determined.

Acute oral toxicity Phosphoric acid : LD50, rat
Dose: 1,530 mg/kg

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

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Advice on Disposal : Refer to all federal, provincial, state and local regulation prior to disposition of container and unused contents by reuse, recycle or disposal.

SECTION 14. TRANSPORT INFORMATION

Refer to Bill of Lading.

SECTION 15. REGULATORY INFORMATION

TSCA Status : All components of this material comply with US TSCA requirements.

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

CERCLA Reportable Quantity : Phosphoric acid 5,000 Pounds

California Prop. 65 : N.D.

NFPA : 3 0 0 Corrosive Acid

HMIS : 3 0 0 J

WHMIS : E: Corrosive Material
D2B: Toxic Material Causing Other Toxic Effects

SECTION 16. OTHER INFORMATION

Further Information

Chemetall US, Inc. warrants that the products described herein will conform with its published specifications. The products supplied by Chemetall 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 Chemetall materials for their own particular purpose. Since buyer's conditions of use of products are beyond

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