

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Engineering controls
 Personal protective equipment
 Eye / face protection
 Skin protection
 Respiratory protection

Wear chemical goggles.
 Protective gloves.

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
 Do not get this material in contact with eyes. Do not get this material in contact with skin. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations

9. Physical & Chemical Properties

Appearance Not available
 Color Yellow.
 Odor Characteristic.
 Physical state Liquid.
 Form Aerosol.
 Flammability (HOC) 2.83 kJ/g estimated
 Flammability limits in air, upper, Not available
 % by volume Not available
 Flammability limits in air, lower, Not available
 % by volume No
 Flash back 50 - 60 psig @ 70F
 Pressure Partially
 Solubility -156 °F (-104.4 °C) estimated
 Flash point 213.8 °F (101.1 °C) estimated
 Boiling point 0.9788 estimated
 Specific gravity

10. Chemical Stability & Reactivity Information

Chemical stability Risk of ignition. Stable at normal conditions.
 Conditions to avoid Heat, flames and sparks.
 Incompatible materials None known.
 Hazardous decomposition products May include oxides of oxides of carbon.

11. Toxicological Information

Acute effects
 Acute LD50: 8542 mg/kg estimated, Rat, Oral
 Acute LD50: 4536 mg/kg estimated, Rat, Dermal
 Acute LC50: 40 mg/4h estimated, Rat, Inhalation
Local effects
 Contact may irritate or burn eyes. Liver toxicity. Blood disorder may occur after ingestion. Components of the product may be absorbed into the body through the skin.
Chronic effects
 Hazardous by OSHA criteria. This product may be harmful if it is absorbed through the skin. Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Subchronic effects
 Kidney injury may occur. Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact.
Cardiotoxicity
 This product is not considered to be a cardiogen by IARC, ACGIH, NTP, or OSHA.
Neurological effects
 Hazardous by OSHA criteria.
Epidemiology
 Hazardous by OSHA criteria.
Further information
 Symptoms may be delayed.

Material name: Country Fresh Germicidal Cleaner
 Material ID: 774 Revision date: 02-MAY-2007 Print date: 02-MAY-2007

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12. Ecological Information

Ecotoxicity
 LC50 1098 mg/L estimated, Fish, 96.00 Hours,
 EC50 42929 mg/L estimated, Daphnia, 48.00 Hours,
 LC50 86.05 mg/L estimated, Algae, 72.00 Hours,
 Components of this product have been identified as having potential environmental concerns.

13. Disposal Considerations

Waste codes
 D001: Waste Flammable material with a flash point <140 F
 D002: Waste Corrosive material [pH <=2 or >=12.5, or corrosive to steel]
Disposal Instructions
 Contents under pressure. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose in accordance with all applicable regulations.

14. Transport Information

Department of Transportation (DOT) Requirements

Basic shipping requirements:
 Proper shipping name Consumer commodity
 Hazard class ORM-D
 Subsidiary hazard class None
 Additional information: 156, 306
 Packaging exceptions 156, 306
 Packaging non bulk None
 Packaging bulk None

15. Regulatory Information

US federal regulations
 This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
 All components are on the U.S. EPA TSCA Inventory List.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
 Delayed Hazard - Yes
 Fire Hazard - Yes
 Pressure Hazard - Yes
 Reactivity Hazard - No

Section 302 extremely hazardous substance Yes

Section 311 hazardous chemical Yes

Inventory status

Country(ies) or region Inventory name

China Inventory of Existing Chemical Substances in China (IECS)

Europe European Inventory of New and Existing Chemicals (ENECS)

Japan European List of Notified Chemical Substances (ELINCS)

Korea Inventory of Existing and New Chemical Substances (ENCS)

United States & Puerto Rico Existing Chemicals List (ECL)

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(ies)

On Inventory (yes/no)*
 Yes
 Yes
 No
 No
 No
 Yes

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State regulations

U.S. - Pennsylvania - RTK (Right to Know) List
Z-Butoxyethanol Present
n-Butane Present
111-76-2 Present
106-97-8 Present

16. Other Information

HMTS® ratings

Health: 1*
Flammability: 2
Physical hazard: 0

**Prepared by
Disclaimer**

Regulatory Compliance

The information provided in the Safety Data Sheet is correct to the best of our knowledge. Information and data at the time of its publication. The information given is designed only as a guideline for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
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