

5A PATCO GLASS & HARD SURFACE CLEANER

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name 5A PATCO GLASS & HARD SURFACE CLEANER
Revision date 08-Jan-2007
Company information Patco Management Inc.
7710 Maltlage Drive
Liverpool, NY 13090 US
Emergency CHEMTEL 1-800-255-3924
General information Phone: 1-800-466-0693

2. Hazards Identification

Emergency overview Harmful by inhalation, in contact with skin and if swallowed. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Prolonged exposure may cause chronic effects.

Potential short term health effects

Routes of exposure Inhalation. Skin contact. Eye contact Ingestion.

Eyes Contact can cause moderate to severe irritation and possible injury to the eyes. Chronic eye exposure to this product may cause irreversible eye damage.

Skin Prolonged and/or repeated skin contact may result in mild irritation or redness.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Target organs Kidney. Blood. Central nervous system. Eyes. Liver. Respiratory system. Skin.

3. Composition / Information on Ingredients

Hazardous component(s)	CAS #	Percent
2-Butoxyethanol	111-76-2	< 40

4. First Aid Measures

First aid procedures

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.

Skin contact Wash with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.

Inhalation Move to fresh air. If breathing is difficult, give oxygen.

Ingestion Do not induce vomiting. Immediately give large quantities of water to drink. Lay person down with legs raised, keep warm and get medical attention.

Notes to physician Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

General advice Call a physician if symptoms develop or persist. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take off contaminated clothing and shoes immediately. In case of shortness of breath, give oxygen. Keep victim warm.

5. Fire Fighting Measures

Flammable properties None known.

Extinguishing media

Suitable extinguishing media Not applicable.

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Protection of firefighters

Protective equipment for firefighters In the event of fire, wear self-contained breathing apparatus.

6. Accidental Release Measures

Personal precautions Ensure adequate ventilation.

Methods for containment Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

7. Handling and Storage

Handling Keep container closed. Avoid contact with skin and eyes.

Storage Keep at temperatures between 4 and 38°C.

8. Exposure Controls / Personal Protection

Exposure guidelines

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

2-Butoxyethanol 111-76-2 20 Ppm TWA

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

2-Butoxyethanol 111-76-2 eye and upper respiratory tract irritation

OSHA - Final PELs - Skin Notations

2-Butoxyethanol 111-76-2 prevent or reduce skin absorption

OSHA - Final PELs - Time Weighted Averages (TWAs)

2-Butoxyethanol 111-76-2 50 Ppm TWA; 240 mg/m³ TWA

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

Personal protective equipment

Eye / face protection Avoid contact with eyes. Wear as appropriate: Safety glasses. Goggles.

Skin protection Protective gloves. Avoid contact with the skin.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. Keep away from food and drink.

9. Physical & Chemical Properties

Appearance	clear liquid
Color	dark blue
Form	liquid
Odor	butyl and / or ammonia
Odor threshold	Not available
pH	12
Freezing point	Not available
Boiling point	212 °F
Flash point	> 212 °F Pensky-Martens Closed Cup
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.001
Solubility (H₂O)	100 %

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VOC (Weight %) 31.87 %

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.
Conditions to avoid Do not freeze.
Incompatible materials Strong acids.
Hazardous decomposition products Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.
Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Acute effects Acute LD50: 1427 mg/kg, Rat, Oral
Acute LD50: 710 mg/kg, Rat, Dermal
Acute LC50: 1452 mg/l/4h, Rat, Inhalation
Local effects Skin irritation Eye irritation Irritating to respiratory system.
Chronic effects 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.
Subchronic effects Kidney injury may occur. Blood disorder may occur after ingestion. Blood disorder may occur after prolonged inhalation. Blood disorder may occur after prolonged skin contact.
Further information Symptoms may be delayed.

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental concerns.
Environmental effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13. Disposal Considerations

Disposal instructions Dispose in accordance with all applicable regulations. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

14. Transport Information

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

Department of Transportation (DOT) Requirements NON-BULK

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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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.

CERCLA/SARA - Section 313 - Emission Reporting

2-Butoxyethanol	111-76-2	1.0 Percent de minimis concentration (applies to R-(OCH ₂ CH ₂) _n -OR' ethers, where n = 1, 2, or 3, R=alkyl C7 or less or R = phenyl or alkyl subst. phenyl, R' = H or alkyl C7 or less, or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or
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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 - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance No

Section 311 hazardous chemical Yes

Inventory status

Country(s) or region	Inventory name
Australia	Australian Inventory of Chemical Substances (AICS)
Canada	Domestic Substances List (DSL)
China	Inventory of Existing Chemical Substances in China (CCS)
Europe	European Inventory of New and Existing Chemicals (EINECS)
Korea	Korean Inventory of Chemicals (KICS)
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory

International regulations The product is classified and labelled in accordance with EC directives or respective national laws.

State regulations This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

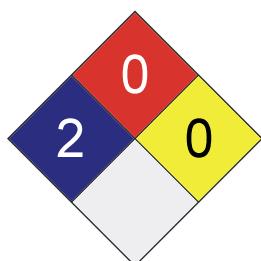
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16. Other Information

HMIS rating

Health	/ 2
Flammability	0
Physical Hazard	0
Personal Protection	B

NFPA codes



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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.