1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Isocyanate Decontamination Solution
OTHER/GENERIC NAMES: CLI Isocyanate Decontamination Solution
PART NUMBER: 1072/1073 (22 oz.), 1052 (gallon)

PRODUCT USE: Decontamination solution for Isocyanates

MANUFACTURER: Colormetric Laboratories, Inc. (CLI)
1261A Rand Road
Des Plaines, IL  60016

FOR MORE INFORMATION CALL: 1-847-803-3737
Fax: 1-847-803-3739
Email: clilabs@clilabs.com

IN CASE OF EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: This product is a transparent green liquid with an ammonia odor. The product may cause temporary irritation in sensitive individuals. Repeated exposure may lead to irritation. Can be irritating to skin, nose, and throat causing headaches.

ROUTES OF ENTRY: Inhalation, Skin and/or Eye contact, Ingestion

POTENTIAL HEALTH EFFECTS

SKIN CONTACT: May cause irritation
EYE CONTACT: May cause irritation and redness
INGESTION: May be harmful if swallowed
INHALATION: Mild irritation

ACUTE HEALTH HAZARDS: Irritating to eyes, nose, throat; headache, vomiting; hemolysis; central nervous system depressant

TARGET ORGANS: Eyes, skin, respiratory system, central nervous system, blood, kidneys

No ingredients are listed by OSHA, IARC, or NTP, EPA as known or suspected carcinogens
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Amount</th>
<th>CAS Number</th>
<th>Hazardous</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxy ethanol</td>
<td>&lt;10%</td>
<td>111-76-2</td>
<td>No</td>
<td>50 ppm</td>
<td>20 ppm</td>
</tr>
<tr>
<td>Ammonia</td>
<td>1%</td>
<td>7664-41-7</td>
<td>Yes</td>
<td>50 ppm</td>
<td>25 ppm</td>
</tr>
<tr>
<td>Surfactants</td>
<td>N/A</td>
<td></td>
<td>No</td>
<td>None est.</td>
<td>None est.</td>
</tr>
<tr>
<td>Buffers</td>
<td>N/A</td>
<td></td>
<td>No</td>
<td>None est.</td>
<td>None est.</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

SKIN CONTACT: Wash off with soap and water.
EYE CONTACT: Flush with plenty of water
INGESTION: Do not induce vomiting. Give several glasses of water. Consult a physician
INHALATION: Remove to fresh air
ADVICE TO PHYSICIAN: Treat symptomatically

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLAMMABILITY OF PRODUCT: Non-flammable
FLASH POINT: Not applicable
AUTOIGNITION TEMPERATURE: Not applicable
UPPER FLAME LIMIT: Not applicable
LOWER FLAME LIMIT: Not applicable

HMIS HAZARD CLASSIFICATION

HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 1
PROTECTION: 1

EXTINGUISHING MEDIA:
Compatible with water spray

SPECIAL FIRE FIGHTING PROCEDURES:
None required

HAZARDOUS DECOMPOSITION PRODUCTS:
None known
6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE:

Containment Procedures: Use personal protective equipment. Ensure adequate ventilation.
Cleanup Procedures: Use wet mop to clean spill. Rinse with copious amounts of water. Consult state and federal EPA requirements.

7. HANDLING AND STORAGE

RECOMMENDED STORING CONDITIONS:
Stable under normal room-temperature conditions. Protect from freezing and avoid temperatures above 50°C.

SHELF LIFE:
Indefinite

HANDLING:
Avoid contact with eyes. Do not swallow. Avoid breathing vapors and/or prolonged skin contact. Wear approved respirator if vapor is irritating. Wash thoroughly after handling. Keep away from heat and sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Local exhaust ventilation is recommended to effectively remove and prevent build-up of vapors.

VENTILATION: Local exhaust acceptable

RESPIRATORY PROTECTION: Wear approved respirator if vapor is irritating

EYE PROTECTION: Use splash goggles

SKIN PROTECTION: Protective gloves recommended

OTHER PROTECTIVE EQUIPMENT: None necessary

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Substance</th>
<th>NIOSH</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxy ethanol</td>
<td>5 ppm TWA (24 mg/m^3) [skin]</td>
<td>50 ppm TWA (240 mg/m^3) [skin]</td>
<td></td>
</tr>
<tr>
<td>Ammonia</td>
<td>25 ppm TWA (18 mg/m^3)</td>
<td>50 ppm TWA (35 mg/m^3)</td>
<td>25 ppm TWA (17 mg/m^3)</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPEARANCE:</td>
<td>Transparent green</td>
</tr>
<tr>
<td>PHYSICAL STATE:</td>
<td>Liquid</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT:</td>
<td>Varies</td>
</tr>
<tr>
<td>CHEMICAL FORMULA:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>ODOR:</td>
<td>Ammonia odor</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (water = 1.0)</td>
<td>1.026</td>
</tr>
<tr>
<td>pH:</td>
<td>10.5</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (weight %):</td>
<td>Miscible</td>
</tr>
</tbody>
</table>
**BOILING POINT:** 100°C
**MELTING POINT:** Not available
**FREEZING POINT:** -9°C
**VAPOR PRESSURE:** 30 mm Hg @ 38°C
**VAPOR DENSITY (air = 1.0):** 1.3
**EVAPORATION RATE:** Not available
**PERCENT VOLATILES:** Not available
**FLASH POINT:** Non-flammable

**10. STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:**
- Thermally stable at typical use temperatures

**INCOMPATIBILITIES:**
- Strong oxidizers, acids, bleach

**HAZARDOUS DECOMPOSITION PRODUCTS:**
- None known

**HAZARDOUS POLYMERIZATION:**
- None

**CONDITIONS TO AVOID (POLYMERIZATION):**
- None

**11. TOXICOLOGICAL INFORMATION**

**TOXICOLOGICAL DATA**

Acute oral toxicity: 2-butoxyethanol – LD50 rat: 2.5 g/kg
Acute inhalation toxicity: 2-butoxyethanol – N/A
Acute dermal toxicity: 2-butoxyethanol – N/A

Acute oral toxicity: Ammonia – N/A
Acute inhalation toxicity: Ammonia – LC50 rat: 7338-11590 ppm (1 hour), 2000 ppm (4 hours)
Acute dermal toxicity: Ammonia – N/A

Carcinogenic effects:
- IARC Carcinogen List: Not listed
- NTP Carcinogen List: Not listed
- ACGIH Carcinogen List: Not listed
- EPA Carcinogen List: Not listed
12. ECOLOGICAL INFORMATION

Ecotoxicity: 2-butoxyethanol biodegrades in soils and water with a half-life of 1–4 weeks in aquatic environments.

Aquatic: Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC 50 & IC 50 ≥100 mg/L. Currently, the following aquatic toxicity data are available for Ammonia:
- Daphnia magna (48 hour) LC50 = 189 mg/l
- Rainbow trout (24 hour) LC50 = 0.97 mg/l
- Fathead minnow (96 hour) LC50 = 8.2 mg/l

Terrestrial: Not tested on finished formulation.

Persistence and Degradability: Readily Biodegradable per OECD 301D, Closed Bottle Test
Bioaccumulative Potential: No data available.
Mobility in Soil: No data available.
Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Unused or Used Liquid: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.
Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

14. TRANSPORT INFORMATION

U.N. Number: Not applicable  U.N. Proper Shipping Name: Cleaning Compound, Liquid NOI
Transport Hazard Class(es): Not applicable  NMFC Number: 48580-3
Packing Group: Not applicable  Class: 55
Environmental Hazards: Marine Pollutant – NO

Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code): Unknown.
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises: None known.

IMO / IDMG: Not classified as Hazardous  ADR/RID: Not classified as Hazardous
15. REGULATORY INFORMATION

**All components are listed on:** EINECS and TSCA Inventory

**No components listed under:** Clean Air Act Section 112

**TSCA / TRI SARA Title III Reporting:** This product contains 2-butoxyethanol (111-76-2, <5%) which is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.

Sections 311/312 Hazard Categories – Not applicable.

Sections 302 – Not applicable.

**RCRA Status:** Not a hazardous waste.

**CERCLA Status:** No components listed

**CA PROP. 65 Status:** No components listed

**Clean Air Act (CAA):** Not applicable

**Clean Water Act (CWA):** Not applicable

**State Right To Know Lists:** No ingredients listed

**Texas ESL:**
- Ethoxylated Alcohol: 68439-46-3, 60 µg/m³ long term, 600 µg/m³ short term
- Sodium Citrate: 68-04-2, 5 µg/m³ long term, 50 µg/m³ short term
- Sodium Carbonate: 497-19-8, 5 µg/m³ long term, 50 µg/m³ short term
- Citric Acid: 77-92-9, 10 µg/m³ long term, 100 µg/m³ short term

16. OTHER INFORMATION

**CURRENT ISSUE DATE:** August 7, 2015

Questions about the information found on this (M)SDS should be directed to:

Colormetric Laboratories, Inc. (CLI)
1261A Rand Road  Des Plaines, IL 60016

Phone: (847) 803-3737  [9:00am-4:00pm Central Time, Mon-Fri]
Fax: (847) 803-3739
Email: clilabs@clilabs.com

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