Safety Data Sheet

Aromatic Amine Cleaning/Developing Solution

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aromatic Amine Cleaning/Developing Solution
OTHER/GENERIC NAMES: CLI Aromatic Amine Clean/Dev Solution
PART NUMBER: 1041 (gallon) / 1061 (22 oz.)
PRODUCT USE: Developing solution for CLI’s Aromatic Amine Surface Swypes™
MANUFACTURER: Colormetric Laboratories, Inc. (CLI)
1261A Rand Road
Des Plaines, IL  60016

FOR MORE INFORMATION CALL:
(Monday-Friday, 9:00am-4:00pm)
1-847-803-3737
1-847-803-3739 (fax)
Email: clilabs@clilabs.com

IN CASE OF EMERGENCY CALL:
(24 Hours/Day, 7 Days/Week)
1-800-424-9300 (CHEMTREC)

2. HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: This product is a transparent, green liquid. Has a slight sassafras odor. The product may cause temporary irritation in sensitive individuals. Repeated exposure may lead to irritation. Can cause headaches, nausea, and other effects to the central nervous system.

ROUTES OF ENTRY: Inhalation, Skin, Eye, 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, skin, nose and throat; hemolysis, hematuria; central nervous system depressant, headache; vomiting

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

No ingredients are listed by OSHA, IARC, or NTP 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 (ppm)</th>
<th>ACGIH TWA (ppm)</th>
</tr>
</thead>
</table>
4. FIRST-AID MEASURES

SKIN CONTACT: Wash off with soap and water. Wash contaminated clothing before re-use.

EYE CONTACT: Flush with plenty of water

INGESTION: Seek medical attention

INHALATION: Remove to fresh air

ADVICE TO PHYSICIAN: Treat symptomatically

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: N/A
AUTOIGNITION TEMPERATURE: N/A
UPPER FLAME LIMIT: N/A
LOWER FLAME LIMIT: N/A

HMIS HAZARD CLASSIFICATION

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

EXTINGUISHING MEDIA:
Compatibility with water spray

SPECIAL FIRE FIGHTING PROCEDURES:
Wear protective clothing and breathing equipment appropriate for surrounding fire

HAZARDOUS DECOMPOSITION PRODUCTS:
None

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE:

Containment Procedures: Use personal protective equipment. Ensure adequate ventilation.
Cleanup Procedures: Vacuum or mop up spill (non-hazardous). Wash down drain with copious amounts of water.

7. HANDLING AND STORAGE

RECOMMENDED STORING CONDITIONS:
Stable under normal room-temperature conditions. Protect from freezing.

SHELF LIFE:
Indefinite

HANDLING:
Safety Data Sheet
Aromatic Amine Cleaning/Developing Solution

Avoid contact with eyes, skin and clothing. Do not swallow. Use with adequate ventilation. Avoid breathing vapors. Wash thoroughly after handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Provide local or general exhaust ventilation to effectively remove and prevent build-up of vapors. General ventilation should be sufficient for most operations.

VENTILATION: Local exhaust acceptable

RESPIRATORY PROTECTION: None necessary

EYE PROTECTION: Use chemical splash goggles

SKIN PROTECTION: Use gloves chemically resistant to this material

OTHER PROTECTIVE EQUIPMENT: None necessary

EXPOSURE GUIDELINES

NIOSH: 5 ppm TWA (24 mg/m³) [skin]
OSHA: 50 ppm TWA (240 mg/m³) [skin]

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>PROPERTY</th>
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<tbody>
<tr>
<td>APPEARANCE: Transparent green color</td>
<td>PHYSICAL STATE: Liquid</td>
</tr>
<tr>
<td>MOLECULAR WEIGHT: Not applicable</td>
<td>CHEMICAL FORMULA: Not applicable</td>
</tr>
<tr>
<td>ODOR: Sassafras odor</td>
<td>SPECIFIC GRAVITY (water = 1.0): 1.04</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (weight %): Miscible</td>
<td>pH: 4</td>
</tr>
<tr>
<td>BOILING POINT: Approx. 97°C</td>
<td>MELTING POINT: Not applicable</td>
</tr>
<tr>
<td>VAPOR PRESSURE: 30 mm Hg</td>
<td>VAPOR DENSITY (air = 1.0): 1.3</td>
</tr>
<tr>
<td>EVAPORATION RATE: Not applicable</td>
<td>PERCENT VOLATILES: Not applicable</td>
</tr>
<tr>
<td>FLASH POINT: None</td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:
Thermally stable at typical use temperatures

INCOMPATIBILITIES:
Strong oxidizers, strong caustics

HAZARDOUS DECOMPOSITION PRODUCTS:
None

HAZARDOUS POLYMERIZATION:
None
CONDITIONS TO AVOID (POLYMERIZATION):
Not applicable

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

Carcinogenic effects:
IARC Carcinogen List: Group 3
NTP Carcinogen List: Not listed
ACGIH Carcinogen List: Not listed

12. ECOLOGICAL INFORMATION

Ecotoxicity: Material has not been identified as a major environmental contaminant, nor is it known to bio-accumulate. 2-butoxyethanol biodegrades in soils and water with a half-life of 1–4 weeks in aquatic environments. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labeling of Chemicals.

Aquatic: Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC 50 & IC 50 ≥100 mg/L. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.

Terrestrial: Not tested on finished formulation
Persistence and Degradability: Readily Biodegradable per OCED 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.

ICAO/ IATA: Not classified as Hazardous
IMO / IMDG: 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>TWA Limit</th>
<th>STEL Limit</th>
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<tbody>
<tr>
<td>Ethoxylated Alcohol</td>
<td>60 µg/m³</td>
<td>600 µg/m³</td>
</tr>
<tr>
<td>Sodium Citrate</td>
<td>5 µg/m³</td>
<td>50 µg/m³</td>
</tr>
<tr>
<td>Sodium Carbonate</td>
<td>5 µg/m³</td>
<td>50 µg/m³</td>
</tr>
<tr>
<td>Citric Acid</td>
<td>10 µg/m³</td>
<td>100 µg/m³</td>
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16. OTHER INFORMATION

CURRENT ISSUE DATE: August 7, 2015

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

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