Safety Data Sheet

Aliphatic Amine Developing Solution

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Aliphatic Amine Developing Solution
OTHER/GENERIC NAMES: CLI Aliphatic Amine Developing Solution
PART NUMBER: 1065 (22 oz.)

PRODUCT USE: Developing solution for Aliphatic Amine Surface & Skin 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 light green liquid with a slight alcohol odor. This product can cause irritation to the skin, eyes and upper respiratory system. Can cause headaches, drowsiness, dizziness, and optic nerve damage.

ROUTES OF ENTRY: Inhalation, Skin absorption, Ingestion, Eye contact

POTENTIAL HEALTH EFFECTS

SKIN CONTACT: May cause irritation
EYE CONTACT: May cause irritation and redness
INGESTION: May cause blindness and nausea if swallowed
INHALATION: Upper respiratory tract irritation

ACUTE HEALTH HAZARDS: Irritating to eyes, nose, throat; headache, vomiting; blindness, drowsiness, dermatitis

TARGET ORGANS: Eyes, skin, respiratory system, central nervous system, gastrointestinal tract

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>Methanol</td>
<td>15%</td>
<td>67-56-1</td>
<td>No</td>
<td>200 ppm</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

SKIN CONTACT: Wash off with water

EYE CONTACT: Flush with plenty of water

INGESTION: Induce vomiting. 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: 0
PROTECTION: 0

EXTINGUISHING MEDIA:
Dry chemical

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: 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 excessive heat.

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. Use in well ventilated areas

RESPIRATORY PROTECTION:
None required. Wear approved respirator if vapor is irritating

EYE PROTECTION:
Use splash goggles

SKIN PROTECTION:
Vinyl or latex gloves recommended

OTHER PROTECTIVE EQUIPMENT:
None necessary

EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th></th>
<th>Methanol</th>
</tr>
</thead>
<tbody>
<tr>
<td>NIOSH</td>
<td>200 ppm TWA (262 mg/m³)</td>
</tr>
<tr>
<td>OSHA</td>
<td>200 ppm TWA (260 mg/m³)</td>
</tr>
<tr>
<td>ACGIH</td>
<td>200 ppm TWA (262 mh/m³)</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>Light 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>Alcohol odor</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (water = 1.0)</td>
<td>0.98</td>
</tr>
<tr>
<td>pH</td>
<td>7.0</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (weight %)</td>
<td>Miscible</td>
</tr>
<tr>
<td>BOILING POINT</td>
<td>100°C</td>
</tr>
<tr>
<td>MELTING POINT</td>
<td>Not available</td>
</tr>
<tr>
<td>FREEZING POINT</td>
<td>Not available</td>
</tr>
<tr>
<td>VAPOR PRESSURE</td>
<td>Not available</td>
</tr>
<tr>
<td>VAPOR DENSITY (air = 1.0)</td>
<td>Not available</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>Not available</td>
</tr>
<tr>
<td>PERCENT VOLATILES</td>
<td>Not available</td>
</tr>
<tr>
<td>FLASH POINT</td>
<td>Non-flammable</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

CHEMICAL STABILITY:
Thermally stable at typical use temperatures

INCOMPATIBILITIES:
Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:
None known

HAZARDOUS POLYMERIZATION:
None

CONDITIONS TO AVOID (POLYMERIZATION):
None

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA

Acute oral toxicity: Methanol – LD50 rat: 5628 mg/kg
Acute inhalation toxicity: Methanol – LC50 rat: 64000 ppm (4 hours)
Acute dermal toxicity: Methanol – LD50 rabbit: 15800 mg/kg

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

TOXICITY:
Ecotoxicity in water (LC50): 29400 mg/l 96 hours [Fathead Minnow].

Methanol in water is rapidly biodegraded and volatilized. Aquatic hydrolysis, oxidation, photolysis, adsorption to sediment, and bioconcentration are not significant fate processes. The half-life of methanol in surface water ranges from 24 hrs. to 168 hrs. Based on its vapor pressure, methanol exists almost entirely in the vapor phase in the ambient atmosphere. It is degraded by reaction with photochemically produced hydroxyl radicals and has an estimated half-life of 17.8 days. Methanol is physically removed from air by rain due to its solubility. Methanol can react with NO2 in polluted to form methyl nitrate. The half-life of methanol in air ranges from 71 hours (3 days) to 713 hours (29.7 days) based on photooxidation half-life in air.

13. DISPOSAL CONSIDERATIONS

Waste is non-hazardous and biodegradable. Can be washed down drain after diluting with water. Waste must be disposed of in accordance with federal, state, and local environmental control regulations.
14. TRANSPORT INFORMATION

This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations.

15. REGULATORY INFORMATION

Not available.

16. OTHER INFORMATION

CURRENT ISSUE DATE: 1/1/2015

Questions about the information found on this MSDS 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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