SAFETY DATA SHEET

1. Identification

Material name: UNI-STRIPP - 5 GL
Material: CUNS G005 000

Recommended use and restriction on use

Recommended use: Coatings
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information
EUCLID CHEMICAL COMPANY
19218 REDWOOD ROAD
CLEVELAND OH 44110
US

Contact person: EH&S Department
Telephone: 216-531-9222
Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Physical Hazards
Flammable liquids Category 3

Health Hazards
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1
Toxic to reproduction Category 1B

Unknown toxicity - Health
Acute toxicity, oral 0.98 %
Acute toxicity, dermal 0.98 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust or mist 38.31 %

Environmental Hazards
Acute hazards to the aquatic environment Category 2

Unknown toxicity - Environment
Acute hazards to the aquatic environment 76.05 %
Chronic hazards to the aquatic environment 100 %

Label Elements

Hazard Symbol:
Signal Word: Danger

Hazard Statement: Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
May damage fertility or the unborn child.
Toxic to aquatic life.

Precautionary Statement: Prevention:
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Wash contaminated clothing before reuse. In case of fire: Use E to extinguish.

Storage: Store in well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>d-Limonene</td>
<td>5989-27-5</td>
<td>15 - 40%</td>
</tr>
</tbody>
</table>

* Content in percent (%) range.
4. First-aid measures

**Ingestion:**
Call a POISON CENTER/doctor/.../if you feel unwell. Rinse mouth.

**Inhalation:**
Move to fresh air.

**Skin Contact:**
Take off immediately all contaminated clothing. Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention.

**Eye contact:**
Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**Most important symptoms/effects, acute and delayed**

**Symptoms:**
Respiratory tract irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

**Indication of immediate medical attention and special treatment needed**

**Treatment:**
Symptoms may be delayed.

5. Fire-fighting measures

**General Fire Hazards:**
Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:**
Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:**
Avoid water in straight hose stream; will scatter and spread fire.

**Specific hazards arising from the chemical:**
Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause a flash fire or ignite explosively. Prevent buildup of vapors or gases to explosive concentrations.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:**
No data available.
Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning up: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Notification Procedures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Precautions for safe handling: Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Take precautionary measures against static discharges. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with skin. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: Store in a well-ventilated place. Store in a cool place. Store locked up.

8. Exposure controls/personal protection

Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica</td>
<td>TWA</td>
<td>20 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.8 mg/m3</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Chemical name</td>
<td>type</td>
<td>Exposure Limit Values</td>
<td>Source</td>
</tr>
<tr>
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</tr>
<tr>
<td>1-Methyl-2-pyrrolidinone</td>
<td>TWAEV</td>
<td>400 mg/m³</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Amorphous silica - Total</td>
<td>TWA</td>
<td>4 mg/m³</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Amorphous silica - Respirable</td>
<td>TWA</td>
<td>1.5 mg/m³</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Amorphous silica</td>
<td>TWAEV</td>
<td>10 mg/m³</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
</tr>
<tr>
<td>Amorphous silica - Respirable dust.</td>
<td>TWA</td>
<td>6 mg/m³</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) (12 2008)</td>
</tr>
</tbody>
</table>

**Appropriate Engineering Controls**

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

**Individual protection measures, such as personal protective equipment**

**General information:**
Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Use explosion-proof ventilation equipment.

**Eye/face protection:**
Wear safety glasses with side shields (or goggles).

**Skin Protection**

**Hand Protection:**
Use suitable protective gloves if risk of skin contact.

**Other:**
Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:**
In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures: Observe good industrial hygiene practices. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance
- Physical state: liquid
- Form: liquid
- Color: Colorless
- Odor: Mild petroleum/solvent
- Odor threshold: No data available.
- pH: No data available.
- Melting point/freezing point: No data available.
- Initial boiling point and boiling range: No data available.
- Flash Point: 47 °C 117 °F (Tag closed cup)
- Evaporation rate: Slower than Ether
- Flammability (solid, gas): No

Upper/lower limit on flammability or explosive limits
- Flammability limit - upper (%): No data available.
- Flammability limit - lower (%): No data available.
- Explosive limit - upper (%): No data available.
- Explosive limit - lower (%): No data available.
- Vapor pressure: No data available.
- Vapor density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
- Relative density: 1.0432

Solubility(ies)
- Solubility in water: Practically Insoluble
- Solubility (other): No data available.
- Partition coefficient (n-octanol/water): No data available.
- Auto-ignition temperature: No data available.
- Decomposition temperature: No data available.
- Viscosity: No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous Reactions: No data available.

Conditions to Avoid: Heat, sparks, flames.
Incompatible Materials: Strong acids. Avoid contact with oxidizing agents (e.g. nitric acid, peroxides and chromates). Strong bases.

Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### 11. Toxicological information

**Information on likely routes of exposure**

- **Ingestion:** May be ingested by accident. Ingestion may cause irritation and malaise.
- **Inhalation:** In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.
- **Skin Contact:** May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
- **Eye contact:** Causes serious eye irritation.

**Information on toxicological effects**

- **Acute toxicity (list all possible routes of exposure)**
  
  - **Oral Product:** ATEmix: 10,420.09 mg/kg
  - **Dermal Product:** ATEmix: 3,794.93 mg/kg
  - **Inhalation Product:** No data available.

  - **Repeated dose toxicity Product:** No data available.

  - **Skin Corrosion/Irritation Product:** No data available.

  - **Serious Eye Damage/Eye Irritation Product:** No data available.
Specified substance(s):
- d-Limonene in vivo (Rabbit, 24 - 72 hrs): Not irritating
- 1-Methyl-2-pyrrolidinone: Severely Irritating
- Dimethyl succinate in vivo (Rabbit, 24 - 72 hrs): Irritating
- Dimethyl adipate in vivo (Rabbit, 1 hrs): Not irritating
- Amorphous silica in vivo (Rabbit, 24 hrs): Not irritating

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: No data available.

In vivo
Product: No data available.

Reproductive toxicity
Product: May damage fertility or the unborn child.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard
Product: No data available.

Other effects: No data available.
### 12. Ecological information

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

- **Fish**
  - Product: No data available.

- **Specified substance(s):**
  - d-Limonene
    - LC 50 (Fathead minnow (Pimephales promelas), 96 h): 0.619 - 0.796 mg/l Mortality

- **Aquatic Invertebrates**
  - Product: No data available.

- **Specified substance(s):**
  - d-Limonene
    - EC 50 (Water flea (Daphnia pulex), 48 h): 69.6 mg/l Intoxication

**Chronic hazards to the aquatic environment:**

- **Fish**
  - Product: No data available.

- **Aquatic Invertebrates**
  - Product: No data available.

- **Toxicity to Aquatic Plants**
  - Product: No data available.

**Persistence and Degradability**

- **Biodegradation**
  - Product: No data available.

- **BOD/COD Ratio**
  - Product: No data available.

**Bioaccumulative Potential**

- **Bioconcentration Factor (BCF)**
  - Product: No data available.

- **Partition Coefficient n-octanol / water (log Kow)**
  - Product: No data available.

- **Specified substance(s):**
  - d-Limonene
    - Log Kow: 4.232
1-Methyl-2-pyrrolidinone  Log Kow: -0.54
Dimethyl succinate  Log Kow: 0.35
Dimethyl adipate  Log Kow: 1.03

**Mobility in Soil:**  No data available.

**Other Adverse Effects:**  Toxic to aquatic organisms.

### 13. Disposal considerations

**Disposal instructions:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:**  No data available.

### 14. Transport information

**TDG:**  Not Regulated

**CFR / DOT:**  Not Regulated

**IMDG:**

UN1993, FLAMMABLE LIQUID, N.O.S. (d-Limonene), 3, PG III

**Further Information:**  The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

### 15. Regulatory information

**US Federal Regulations**

- **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  None present or none present in regulated quantities.

- **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  None present or none present in regulated quantities.

- **CERCLA Hazardous Substance List (40 CFR 302.4):**  None present or none present in regulated quantities.
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Fire Hazard
Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance
None present or none present in regulated quantities.

SARA 304 Emergency Release Notification
None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
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<tbody>
<tr>
<td>d-Limonene</td>
<td>500 lbs</td>
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<td>500 lbs</td>
</tr>
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<td>Dimethyl succinate</td>
<td>500 lbs</td>
</tr>
<tr>
<td>Dimethyl adipate</td>
<td>500 lbs</td>
</tr>
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<td>Amorphous silica</td>
<td>500 lbs</td>
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</table>

SARA 313 (TRI Reporting)

<table>
<thead>
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<td>1-Methyl-2-pyrrolidinone</td>
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Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

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<td>1-Methyl-2-pyrrolidinone</td>
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<td>Amorphous silica</td>
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US. Massachusetts RTK - Substance List

<table>
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<th>Chemical Identity</th>
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<td>1-Methyl-2-pyrrolidinone</td>
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<td>Amorphous silica</td>
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US. Pennsylvania RTK - Hazardous Substances

<table>
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<th>Chemical Identity</th>
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<tr>
<td>1-Methyl-2-pyrrolidinone</td>
</tr>
<tr>
<td>Amorphous silica</td>
</tr>
</tbody>
</table>
US. Rhode Island RTK

Chemical Identity
1-Methyl-2-pyrrolidinone

Other Regulations:

Regulatory VOC (less water and exempt solvent): 499 g/l
VOC Method 310: 47.81%

Inventory Status:

Australia AICS: One or more components in this product are not listed on or exempt from the Inventory.

Canada DSL Inventory List: One or more components in this product are not listed on or exempt from the Inventory.

EINECS, ELINCS or NLP: One or more components in this product are not listed on or exempt from the Inventory.

Japan (ENCS) List: One or more components in this product are not listed on or exempt from the Inventory.

China Inv. Existing Chemical Substances: All components in this product are listed on or exempt from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this product are not listed on or exempt from the Inventory.

Canada NDSL Inventory: One or more components in this product are not listed on or exempt from the Inventory.

Philippines PICCS: One or more components in this product are not listed on or exempt from the Inventory.

US TSCA Inventory: One or more components in this product are not listed on or exempt from the Inventory.

New Zealand Inventory of Chemicals: All components in this product are listed on or exempt from the Inventory.

Japan ISHL Listing: One or more components in this product are not listed on or exempt from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this product are not listed on or exempt from the Inventory.
16. Other information, including date of preparation or last revision

Revision Date: 08/04/2015
Version #: 1.0
Further Information: No data available.
Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.