1. IDENTIFICATION

Catalog Number / Product Name: 34015 / Cocaine Standard
Company: Restek Corporation
Address: 110 Benner Circle
         Bellefonte, Pa. 16823
Phone#: 814-353-1300
Fax#: 814-353-1309
Emergency#: 800-424-9300 (CHEMTREC)
         703-527-3887 (Outside the US)
Email: www.restek.com
Revision Number: 6
Intended use: For Laboratory use only

2. HAZARD(S)IDENTIFICATION

Emergency Overview:

GHS Hazard Symbols: 

GHS Classification:
- Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1
- Flammable Liquid Category 2
- Acute Toxicity - Inhalation Dust / Mist Category 3

GHS Signal Word: Danger
GHS Hazard:
- Highly flammable liquid and vapour.
- Toxic if inhaled.
- Causes damage to organs.

GHS Precautions:

Safety Precautions:
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilation and lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust/fume/gas/mist/vapours/spray.
- Wash hands and skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves/protective clothing/eye protection/face protection.

First Aid Measures:
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- IF exposed: Call a POISON CENTER or doctor/physician.
- Call a POISON CENTER or doctor/physician.
- Specific treatment see section 4.
- In case of fire: Use extinguishing media in section 5 for extinction.

Storage:
- Store in a well-ventilated place. Keep container tightly closed.
- Store in a well-ventilated place. Keep cool.
- Store locked up.

Disposal:
- Dispose of contents/container according to section 13 of the SDS.
3. COMPOSITION / INFORMATION ON INGREDIENT

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>EINEC #</th>
<th>% Composition</th>
</tr>
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<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>99.900000</td>
</tr>
<tr>
<td>cocaine</td>
<td>50-36-2</td>
<td>200-032-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0.100000</td>
</tr>
</tbody>
</table>

4. FIRST-AID MEASURES

Inhalation: Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.

Eyes: Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.

Ingestion: Do not induce vomiting and seek medical attention immediately. Drink two glasses of water or milk to dilute. Provide medical care provider with this SDS.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.

Fire and/or Explosion Hazards: Vapors may be ignited by sparks, flames or other sources of ignition if material is above the flash point giving rise to a fire (Class B). Vapors are heavier than air and may travel to a source of ignition and flash back.

Fire Fighting Methods and Protection: Do not enter fire area without proper protection including self-contained breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Equipment: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Methods for Clean-up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

7. HANDLING AND STORAGE

Handling Technical Measures and Precautions: Toxic or severely irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment.

Storage Technical Measures and Conditions: Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed. Keep away from sources of ignition.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

United States:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>IDLH</th>
<th>ACGIH STEL</th>
<th>ACGIH TLV-TWA</th>
<th>OSHA Exposure Limit</th>
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</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>6000 ppm IDLH</td>
<td>250 ppm STEL</td>
<td>200 ppm TWA</td>
<td>200 ppm TWA; 260 mg/m3 TWA</td>
</tr>
<tr>
<td>cocaine</td>
<td>50-36-2</td>
<td>ND</td>
<td>No TLV</td>
<td></td>
<td>No data available.</td>
</tr>
</tbody>
</table>

Personal Protection:

Engineering Measures: Local exhaust ventilation is recommended when generating excessive levels of vapors from handling or thermal processing.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section 3, provide respiratory protection.

Eye Protection: Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance, color</td>
<td>No data available.</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild</td>
</tr>
<tr>
<td>Physical State</td>
<td>No data available.</td>
</tr>
<tr>
<td>pH</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No data available.</td>
</tr>
<tr>
<td>Vapor DENSITY</td>
<td>1.1 (air = 1)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>No data available.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-98 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>52</td>
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<tr>
<td>Flammability</td>
<td>Highly Flammable</td>
</tr>
<tr>
<td>Upper Flammable/Explosive Limit, % in air</td>
<td>36</td>
</tr>
<tr>
<td>Lower Flammable/Explosive Limit, % in air</td>
<td>6</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>464 deg C</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
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</tr>
<tr>
<td>Specific Gravity</td>
<td>0.791 - 0.792 g/cm3 at 20 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No data available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No data available.</td>
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<tr>
<td>Solubility</td>
<td>Moderate; 50-99%</td>
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<tr>
<td>Partition Coefficient: n-octanol in water</td>
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<tr>
<td>VOC % by weight</td>
<td>99.9</td>
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<tr>
<td>Molecular Weight</td>
<td>32.04</td>
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10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>Stability</td>
<td>Stable under normal conditions.</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>No data available.</td>
</tr>
<tr>
<td>Materials to Avoid / Chemical Incompatiability</td>
<td>Strong oxidizing agents</td>
</tr>
<tr>
<td>Hazardous Decomposition Products:</td>
<td>Carbon dioxide Carbon monoxide</td>
</tr>
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11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Routes of Entry</td>
<td>Inhalation, Skin Contact, Eye Contact, Ingestion</td>
</tr>
<tr>
<td>Target Organs Potentially Affected By Exposure</td>
<td>Eyes, Central nervous system stimulation, Skin, GI Tract, Respiratory Tract</td>
</tr>
<tr>
<td>Chemical Interactions That Change Toxicity</td>
<td>None Known</td>
</tr>
</tbody>
</table>

Immediate (Acute) Health Effects by Route of Exposure:

Inhalation Irritation: Can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache.

Inhalation Toxicity: Harmful! Can cause systemic damage (see "Target Organs") Methanol can cause central nervous system depression and overexposure can cause damage to the
Skin Contact: Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Eye Contact: Can cause moderate irritation, tearing and reddening, but not likely to permanently injure eye tissue.

Ingestion Irritation: Irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Highly toxic and may be fatal if swallowed.

Ingestion Toxicity: Toxic if swallowed. May cause target organ failure and/or death. May be fatal if swallowed.

Long-Term (Chronic) Health Effects:

Carcinogenicity: No data.

Reproductive and Developmental Toxicity: Contains a known human reproductive and/or developmental hazard.

Inhalation: Upon prolonged and/or repeated exposure, can cause moderate respiratory irritation, dizziness, weakness, fatigue, nausea and headache. Harmful! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs")

Skin Contact: Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.

Ingestion: Toxic if swallowed. May cause target organ failure and/or death.

Component Toxicological Data:

NIOSH:
Chemical Name  | CAS No.  | LD50/LC50
--- | --- | ---
Methanol  | 67-56-1 | Inhalation LC50 Rat 22500 ppm 8 h

Component Carcinogenic Data:

OSHA:
Chemical Name  | CAS No.
--- | ---
No data available.

ACGIH:
Chemical Name  | CAS No.
--- | ---
No data available.

NIOSH:
Chemical Name  | CAS No.
--- | ---
No data available.

NTP:
Chemical Name  | CAS No.
--- | ---
No data available.

IARC:
Chemical Name  | CAS No.  | Group No.
--- | --- | ---
No data.  |  | Group 1
No data.  |  | Group 2A
No data.  |  | Group 2B

12. ECOLOGICAL INFORMATION

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.

Mobility: No data

Persistence: No data

Bioaccumulation: No data

Degradability: Biodegrades slowly.

Ecological Toxicity Data: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Description of Spent Product: Spent or discarded material is a hazardous waste.

Disposal Methods: Dispose of by incineration following Federal, State, Local, or Provincial regulations.
14. TRANSPORTATION INFORMATION

United States:
DOT Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3
Packing Group: II

International:
IATA Proper Shipping Name: Methanol
UN Number: UN1230
Hazard Class: 3(6.1)
Packing Group: II

Marine Pollutant: No

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Marine Pollutant</th>
<th>Severe Marine Pollutant</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

No data available.

15. REGULATORY INFORMATION

United States:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>CERCLA</th>
<th>SARA 313</th>
<th>SARA EHS 313</th>
<th>TSCA</th>
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<tbody>
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<td>methanol</td>
<td>67-56-1</td>
<td>X</td>
<td>X</td>
<td>-</td>
<td>X</td>
</tr>
<tr>
<td>cocaine</td>
<td>50-36-2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

The following chemicals are listed on CA Prop 65:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>Prop 65 Develop Tox</td>
</tr>
<tr>
<td>Cocaine</td>
<td>50-36-2</td>
<td>Prop 65 Develop Tox</td>
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</table>

State Right To Know Listing:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
<th>California</th>
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<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>cocaine</td>
<td>50-36-2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

Prior Version Date: 09/24/14
Other Information: Any changes to the SDS compared to previous versions are marked by a vertical line in front of the concerned paragraph.

References: No data available.
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