1. IDENTIFICATION

Product Identifier
Product Name APEX 9900 WATER SOLUBLE FLUID

Other means of identification
SDS #
ITEM# A-9900-05
A-9900-55
A-9900-275

Recommended use of the chemical and restrictions on use
Recommended Use Metalworking lubricant.

Details of the supplier of the safety data sheet
Supplier Address Ashburn Chemical Technologies
7403 Wright Rd
Houston, TX 77041

Emergency Telephone Number
Company Phone Number 832-399-1000
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance transparent
Yellow / light amber

Physical State Liquid

Classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Signal Word DANGER

Hazard Statements
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Harmful if inhaled.
May cause damage to organ through prolonged or repeated exposure
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - 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: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse
If skin irritation or rash occurs: Get medical advice/attention.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
Get medical advice/attention if you feel unwell.

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity
Not determined.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>64742-52-5</td>
<td>1-50</td>
</tr>
<tr>
<td>Chlorinated paraffin (C14-17)</td>
<td>61788-76-9</td>
<td>1-5</td>
</tr>
<tr>
<td>Dicyclohexylamine</td>
<td>101-83-7</td>
<td>1-5</td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>1-5</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice
Provide this SDS to medical personnel for treatment.

Eye Contact
Flush with large amounts of water for 15 minutes. Lift the upper and lower eyelid to ensure complete flushing of the eye(s). Remove contact lens, if worn. Get medical attention if irritation occurs.

Skin Contact
Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Inhalation
  Remove from further exposure. Seek immediate medical assistance.

Ingestion
  Rinse mouth. Do not induce vomiting. Seek immediate medical attention/advice.

**Most important symptoms and effects**

**Symptoms**
  May cause eye, skin and respiratory tract irritation. May include redness, drying and cracking of skin. May cause irritation to the mucous membranes and upper respiratory tract.

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

**Notes to Physician**
  Treat symptomatically.

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**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**
  Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

**Unsuitable Extinguishing Media**
  Not determined.

**Specific Hazards Arising from the Chemical**
  Not determined.

**Hazardous Combustion Products**
  Smoke, Fume, Incomplete combustion products, Oxides of carbon.

**Protective equipment and precautions for firefighters**
  As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions**
  See in Section 8 for personal protective equipment.

**Environmental Precautions**
  See Section 12 for additional Ecological Information.

**Methods and material for containment and cleaning up**

**Methods for Containment**
  Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Absorb or cover with dry earth, sand or other non-combustible material.

**Methods for Clean-Up**
  Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. See section 13 for waste disposal.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on Safe Handling**
  Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Use only with adequate ventilation. Avoid breathing vapors or mists. Use personal protection recommended in Section 8.
Conditions for safe storage, including any incompatibilities

**Storage Conditions**
Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store in open or unlabeled containers. Store away from heat and open flame. Storage temperature > 40 F.

**Incompatible Materials**
Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates, Hydrotreated Napthanic</td>
<td>TWA: 5 mg/m³</td>
<td>TWA: 5 mg/m³</td>
<td>10 mg/m³ 15 min</td>
</tr>
<tr>
<td>64742-52-5</td>
<td>STEL: 10 mg/m³</td>
<td>10 mg/m³ 15 min</td>
<td></td>
</tr>
</tbody>
</table>

### Appropriate engineering controls

**Engineering Controls**
Adequate ventilation. Maintain eye wash fountain and quick-drench facilities in work area.

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

**Eye/Face Protection**
If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection**
If prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended.

**Respiratory Protection**
Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**
Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Transparent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Yellow / Amber</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild vanilla scent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>9.8-10.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt; 1.0</td>
<td>TCC</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
APEX 9900 WATER SOLUBLE FLUID

Vapor Density: Not determined
Specific Gravity: 0.94 (1=Water)
Water Solubility: Emulsifiable
Solubility in other solvents: Not determined
Partition Coefficient: Not determined
Auto-ignition Temperature: Not determined
Decomposition Temperature: Not determined
Kinematic Viscosity: Not determined
Dynamic Viscosity: Not determined
Explosive Properties: Not determined
Oxidizing Properties: Not determined

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Incompatible Materials.

Incompatible Materials: Oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition and combustion are not expected to occur except under extreme conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact: Causes serious eye irritation.

Skin Contact: Causes skin irritation. Prolonged contact may cause redness and irritation. May cause an allergic skin reaction.

Inhalation: Harmful if inhaled. Avoid breathing vapors or mists.

Ingestion: May be harmful if swallowed.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>&gt; 5000 mg/kg (Rabbit)</td>
<td>&gt; 5 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Dicyclohexylamine 101-83-7</td>
<td>= 200 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diethylene glycol 111-46-6</td>
<td>= 12565 mg/kg (Rat)</td>
<td>= 11890 mg/kg (Rabbit)</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms: Please see section 4 of this SDS for symptoms.
Delayed and immediate effects as well as chronic effects from short and long-term exposure

- **Sensitization**: May cause an allergic skin reaction.
- **Carcinogenicity**: Carcinogenic potential is unknown.
- **STOT - repeated exposure**: May cause damage to organs through prolonged or repeated exposure.
- **Numerical measures of toxicity**: Not determined.

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic 64742-52-5</td>
<td></td>
<td>5000: 96 h Oncorhynchus mykiss mg/L LC50</td>
<td>1000: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>Dicyclohexylamine 101-83-7</td>
<td></td>
<td>62: 96 h Brachydanio rerio mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol 111-46-6</td>
<td></td>
<td>75200: 96 h Pimephales promelas mg/L LC50 flow-through</td>
<td>EC50 = 29228 mg/L 15 min 84000: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

- **Persistence/Degradability**: Not determined.
- **Bioaccumulation**: Not determined.

#### Mobility

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclohexylamine 101-83-7</td>
<td>3.5</td>
</tr>
<tr>
<td>Diethylene glycol 111-46-6</td>
<td>-1.98</td>
</tr>
</tbody>
</table>

- **Other Adverse Effects**: Not determined.

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

- **Disposal of Wastes**: Disposal should be in accordance with applicable regional, national and local laws and regulations.
- **Contaminated Packaging**: Disposal should be in accordance with applicable regional, national and local laws and regulations.

### 14. TRANSPORT INFORMATION

- **Note**: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
- **DOT**: Not regulated
- **IATA**: Not regulated
IMDG
Not regulated

Marine Pollutant
This material may meet the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated heavy naphthenic</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Chlorinated paraffin (C14-17)</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Dicyclohexylamine</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>Present</td>
<td></td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclohexylamine</td>
<td>01-83-7</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Diethylene glycol</td>
<td>111-46-6</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

| HMIS | Health Hazards | Flammability | Physical Hazards | Personal Protection | Personal Protection |
|------|----------------|--------------|------------------|---------------------|
| 1    | 0              | 0            |                  |                     |

**Issue Date:** 25-Jun-2015  
**Revision Date:**  
**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet