# 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>C43, C43D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>Gas Treatment</td>
</tr>
<tr>
<td>Company Name:</td>
<td>CYCLO INDUSTRIES</td>
</tr>
</tbody>
</table>
| Address:      | 902 SOUTH US HIGHWAY 1  
                JUPITER, FL  33477 |
| Web site address: | www.cyclo.com |
| Email address: | ehs@cyclo.com |
| Emergency Contact: | CHEMTREC  
                    (800)424-9300  
                    001 (703)741-5970 |
| Phone Number: | (800)843-7813 |

## Intended Use:

Gas Treatment

# 2. Hazards Identification

**Acute Toxicity:** Inhalation, Category 4  
**Skin Corrosion/Irritation:** Category 2  
**Serious Eye Damage/Eye Irritation:** Category 2B  
**Carcinogenicity:** Category 2  
**Specific Target Organ Toxicity (repeated exposure):** Category 2  
**Aspiration Toxicity:** Category 1  
**Aquatic Toxicity (Chronic):** Category 2  
**Flammable Liquids:** Category 4

**GHS Sign Word:** Danger

**GHS Hazard Phrases:**
- H227 - Combustible liquid.  
- H304 - May be fatal if swallowed and enters airways.  
- H315 - Causes skin irritation.  
- H319 - Causes serious eye irritation.  
- H332 - Harmful if inhaled.  
- H351 - Suspected of causing cancer.  
- H373 - May cause damage to organs through prolonged or repeated exposure.  
- H411 - Toxic to aquatic life with long lasting effects.

**GHS Precaution Phrases:**
- P201 - Obtain special instructions before use.  
- P202 - Do not handle until all safety precautions have been read and understood.  
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition source.  
- No smoking.  
- P233 - Keep container tightly closed.  
- P260 - Do not breath dust/fume/gas/mist/vapors/spray.  
- P264 - Wash hands thoroughly after handling.  
- P270 - Do not eat, drink or smoke when using this product.  
- P273 - Avoid release to the environment.  
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**GHS Response Phrases:**
- P370+378 - In case of fire, use foam, alcohol foam, carbon dioxide, dry chemical or water fog to extinguish.  
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
- P304+341 - IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.  
- P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated...
Gas Treatment

SAFETY DATA SHEET

GHS Storage and Disposal Phrases:
P403 - Store in well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>68476-34-6</td>
<td>Diesel #2</td>
<td>90.0 -95.0 %</td>
</tr>
<tr>
<td>111-76-2</td>
<td>Ethanol, 2-Butoxy-</td>
<td>3.0 -5.0 %</td>
</tr>
<tr>
<td>91-20-3</td>
<td>Naphthalene</td>
<td>1.0 -2.0 %</td>
</tr>
<tr>
<td>104-76-7</td>
<td>1-Hexanol, 2-Ethyl-</td>
<td>0.5 -1.5 %</td>
</tr>
<tr>
<td>NA</td>
<td>Polymer/amine</td>
<td>&lt; 1.0 %</td>
</tr>
<tr>
<td>NA</td>
<td>hydroxyethylated aminoethylamide</td>
<td>&lt; 1.0 %</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Emergency and First Aid Procedures:
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

Indication of any immediate medical attention and special treatment needed:
Most important symptoms & effects both acute & delayed: Most important known symptoms & effects are described in the Labeling Section (see Section 2).

5. Fire Fighting Measures

Flash Pt: 46.60 C (115.9 F) Method Used: Pensky-Marten Closed Cup
Explosive Limits: LEL: N.E. UEL: N.E.
Autoignition Pt: >= 260.00 C (500.0 F)
Suitable Extinguishing Media: Dry chemical, CO2, water spray or alcohol-resistant foam.
Fire Fighting Instructions: Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire.

Flammable Properties and Hazards:
Hazardous Combustion Products:
6. Accidental Release Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:**
Eliminate sources of ignition. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

7. Handling and Storage

**Precautions To Be Taken in Handling:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames and other ignition source. No smoking.
Keep container tightly closed.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
Keep out of the reach of children.

**Precautions To Be Taken in Storing:**
Store in cool/well-ventilated place. Store locked up.

8. Exposure Controls/Personal Protection

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Partial Chemical Name</th>
<th>OSHA TWA</th>
<th>ACGIH TWA</th>
<th>Other Limits</th>
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</thead>
<tbody>
<tr>
<td>68476-34-6</td>
<td>Diesel #2</td>
<td></td>
<td></td>
<td>PEL: 100 mg/m3</td>
</tr>
<tr>
<td>111-76-2</td>
<td>Ethanol, 2-Butoxy-</td>
<td></td>
<td></td>
<td>PEL: 20 ppm</td>
</tr>
<tr>
<td>91-20-3</td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td>PEL: 10 ppm</td>
</tr>
<tr>
<td>104-76-7</td>
<td>1-Hexanol, 2-Ethyl-</td>
<td></td>
<td></td>
<td>PEL: 400 ppm</td>
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<tr>
<td>NA</td>
<td>Polymer/amine</td>
<td></td>
<td></td>
<td>PEL: 200 ppm</td>
</tr>
<tr>
<td>NA</td>
<td>hydroxyethylated aminoethylamide</td>
<td></td>
<td></td>
<td>TWA: 50 mg/m3 (Inhalable aerosol and vapor)</td>
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</tbody>
</table>

**Recommended Exposure Limits**

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Chemical Name</th>
<th>Jurisdiction</th>
<th>TWA</th>
<th>STEL</th>
<th>Notations</th>
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</thead>
<tbody>
<tr>
<td>68476-34-6</td>
<td>Diesel #2</td>
<td>Ontario, CA</td>
<td>100 mg/m3</td>
<td></td>
<td>Skin Absorption</td>
</tr>
<tr>
<td>111-76-2</td>
<td>Ethanol, 2-Butoxy-</td>
<td>Austria</td>
<td>96.9 mg/m3</td>
<td>242 mg/m3</td>
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<tr>
<td></td>
<td></td>
<td>California, USA PELs</td>
<td>97 mg/m3</td>
<td>360 mg/m3</td>
<td>Skin Absorption</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ontario, CA</td>
<td>20 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Québec, CA</td>
<td>97 mg/m3</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Europe</td>
<td>98 mg/m3</td>
<td>246 mg/m3</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Mexico OEL</td>
<td>120 mg/m3</td>
<td>360 mg/m3</td>
<td>Skin Absorption</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NIOSH</td>
<td>5 ppm</td>
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</tr>
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<td></td>
<td></td>
<td>New Zealand</td>
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<td></td>
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<tr>
<td>91-20-3</td>
<td>Naphthalene</td>
<td>Austria</td>
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<td>79 mg/m3</td>
<td>Skin Absorption</td>
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<tr>
<td></td>
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<td>California, USA PELs</td>
<td>10 ppm</td>
<td>15 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ontario, CA</td>
<td>10 ppm</td>
<td>0.5 mg/m3</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>China</td>
<td>10 ppm</td>
<td>15 ppm</td>
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</tbody>
</table>
### Recommended Exposure Limits

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>STEL: 75 mg/m³ (15 min)</th>
<th>TWA: 52 mg/m³ (10 ppm)</th>
<th>STEL: 79 mg/m³ (15 ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Québec, CA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe</td>
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<td></td>
</tr>
<tr>
<td>Mexico OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>New Zealand</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Respiratory Equipment

NIOSH/MSHA approved respirator when exposure is expected to exceed applicable limits.

### Eye Protection:

Safety goggles or safety glasses with side shields.

### Protective Gloves:

Neoprene, nitrile, polyvinyl alcohol (PVA), polyvinyl chloride and polyurethane gloves to prevent skin contact.

### Other Protective Clothing:

Clothes to prevent skin contact.

### Engineering Controls

Local exhaust ventilation as necessary to maintain exposures within applicable limits.

### 9. Physical and Chemical Properties

#### Physical States:

[ ] Gas  [X] Liquid  [ ] Solid

#### Appearance and Odor:

Clear red liquid with mild petroleum odor.

#### pH:

NE

#### Melting Point:

NE

#### Boiling Point:

> 360.00 F (182.2 C) - 550.00 F (287.8 C)

#### Flash Pt:

46.60 C (115.9 F)  Method Used: Pensky-Marten Closed Cup

#### Evaporation Rate:

NE

#### Flammability (solid, gas):

LEL: N.E.  UEL: N.E.

#### Vapor Pressure (vs. Air or mm Hg):

1 - 10 MM_HG at 100.0 F (37.8 C)

#### Vapor Density (vs. Air = 1):

4 - 5

#### Specific Gravity (Water = 1):

.81 - .85

#### Density:

6.87 - 7.06 LB/GA

#### Solubility in Water:

NE

#### Saturated Vapor Concentration:

NE

#### Octanol/Water Partition Coefficient:

Percent Volatile: 10.0 % by weight.

#### Autoignition Pt:

>= 260.00 C (500.0 F)

#### Decomposition Temperature:

NE

#### Viscosity:

water thin

---

MIRS MSDS, (c) A V Systems, Inc.  GHS format
10. Stability and Reactivity

Stability: Unstable [ ] Stable [ X ]

Conditions To Avoid - Keep away from heat, sparks & flame.

Instability:

Incompatibility - Materials To Avoid:

Acids. Oxidizing materials.

Hazardous Decomposition or Byproducts:

Possibility of Hazardous Reactions:

Will occur [ ] Will not occur [ X ]

11. Toxicological Information

Toxicological Information:

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
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<tbody>
<tr>
<td>68476-34-6</td>
<td>Diesel #2</td>
<td>n.a.</td>
<td>2B</td>
<td>A3</td>
<td>n.a.</td>
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<tr>
<td>111-76-2</td>
<td>Ethanol, 2-Butoxy-</td>
<td>n.a.</td>
<td>3</td>
<td>A3</td>
<td>n.a.</td>
</tr>
<tr>
<td>91-20-3</td>
<td>Naphthalene</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>104-76-7</td>
<td>1-Hexanol, 2-Ethyl-</td>
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<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
<tr>
<td>NA</td>
<td>Polymer/amine</td>
<td></td>
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<tr>
<td>NA</td>
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<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>

12. Ecological Information

Waste Disposal Method: Dispose of contents/container in accordance with local/regional/national/international regulations.

13. Disposal Considerations

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Flammable Liquid, n.o.s (Diesel #2), (Diesel #2), III.

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1993 Packing Group: III

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Flammable Liquid, n.o.s (Diesel #2), , III.

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Flammable Liquid, n.o.s (Diesel #2), , III.

UN Number: 1993 Packing Group: III

Hazard Class: 3 - FLAMMABLE LIQUID

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Flammable Liquid, n.o.s (Diesel #2), , III.

UN Number: 1993 Packing Group: III

Hazard Class: 3 - FLAMMABLE LIQUID

IMDG MFAG Number: Marine Pollutant: No
## 15. Regulatory Information

### EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

<table>
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<tr>
<th>CAS #</th>
<th>Hazardous Components (Chemical Name)</th>
<th>S. 302 (EHS)</th>
<th>S. 304 RQ</th>
<th>S. 313 (TRI)</th>
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<tbody>
<tr>
<td>68476-34-6</td>
<td>Diesel #2</td>
<td>No</td>
<td>No</td>
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<tr>
<td>111-76-2</td>
<td>Ethanol, 2-Butoxy-</td>
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<td>Yes-Cat. N230</td>
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<td>NA</td>
<td>Polymer/amine</td>
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### Other US EPA or State Lists

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<td>No</td>
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<td>111-76-2</td>
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<td>Active</td>
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<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>104-76-7</td>
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<tr>
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<td>Polymer/amine</td>
<td>No</td>
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<td>No</td>
<td>-</td>
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<td>NA</td>
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</tbody>
</table>

### International Regulatory Lists

- **Canadian DSL:** Yes; **Canadian NDSL:** No; **Mexico INSQ:** Yes; **Australia ICS:** Yes; **New Zealand IOC:** Yes; **China IECSC:** Yes; **Japan ENCS:** Yes - 9-1700; **Japan ISHL:** No; **Korea:**
16. Other Information

Revision Date: 09/25/2018

Hazard Rating System:

![NFPA Rating]

Additional Information About This Product:

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