



# MATERIAL SAFETY DATA SHEET

## Carb Clean International

CYCLO INDUSTRIES, INC.  
401 MAPLEWOOD DRIVE  
SUITE 18  
JUPITER, FL 33458

<b>HEALTH</b>		<b>2</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>PHYSICAL HAZ.</b>		<b>2</b>
<b>PPE</b>		



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### 1. Product and Company Identification

**Product Code:** C-1INTL  
**Product Name:** Carb Clean International  
**Manufacturer Information**  
**Company Name:** CYCLO INDUSTRIES, INC.  
**Phone Number:** (800)843-7813  
**Fax Number:** (561)745-3867  
**Emergency Contact:** First Aid Emergency (800)222-1222  
**Alternate Emergency Contact:** Shipping Emergency (Chemtrec) (800)424-9300  
**Information:** Emergency (Outside the U.S.) (312)906-6194  
**Web site address:** www.cyclo.com  
**Email address:** ehs@cyclo.com

### 2. Hazards Identification

#### Emergency Overview

Keep away from heat, sparks & flame. This material is an eye and skin irritant. Contents under pressure. Gross inhalation overexposure may cause: respiratory tract irritation, kidney damage, blood, liver damage, lung damage and central nervous system depression. Extremely flammable. Harmful if absorbed through the skin. Harmful or fatal if swallowed. Vapor harmful.

#### Health Hazards (Acute and Chronic)

No data available.

#### Signs and Symptoms Of Exposure

No data available.

### 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Heptane	142-82-5	35.0 -45.0 %
2. Toluene	108-88-3	25.0 -35.0 %
3. Methanol	67-56-1	15.0 -25.0 %
4. Ethanol, 2-Butoxy-	111-76-2	1.0 -10.0 %
5. Carbon dioxide	124-38-9	1.0 -5.0 %

### 4. First Aid Measures

#### Emergency and First Aid Procedures

If swallowed, do not induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. In case of eye contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. In case of skin contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Call physician immediately if adverse reaction occurs.

### 5. Fire Fighting Measures

**Flash Pt:** -9.00 F (-22.8 C) Method Used: TAG Closed Cup  
**Explosive Limits:** LEL: 1.1 UEL: 7.5  
**Autoignition Pt:** 500.00 F (260.0 C)



**Special Fire Fighting Procedures**

Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion Hazards**

No data available.

**Hazardous Combustion Products**

Emits irritating and toxic fumes and gases, carbon monoxide, carbon dioxide, formaldehyde.

**Suitable Extinguishing Media**

Alcohol foam.

**Unsuitable Extinguishing Media**

No data available.

**6. Accidental Release Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled**

Wear appropriate protective clothing and equipment to prevent skin and eye contact. Wear protective equipment specified. Only trained and qualified personnel should handle any spilled or leaked product. Keep away from heat, sparks and flames. Use non-sparking tools and equipment. Remove sources of ignition. Follow facility's spill response procedures. Isolate hazard area, keeping unnecessary and unprotected personnel from entering. Absorb spill with inert material. Keep away from drains.

**7. Handling and Storage**

**Precautions To Be Taken in Handling**

Keep container closed when not in use. Avoid contact with skin and eyes. Use only in a well ventilated area.

Warning: flammable. Keep out of the reach of children.

**8. Exposure Controls/Personal Protection**

Hazardous Components (Chemical Name)	CAS #	OSHA TWA	ACGIH TWA	Other Limits
1. Heptane	142-82-5	PEL: 500 ppm	TLV: 400 ppm	No data.
2. Toluene	108-88-3	PEL: 200 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm	TLV: 50 ppm	No data.
3. Methanol	67-56-1	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
4. Ethanol, 2-Butoxy-	111-76-2	PEL: 50 ppm	TLV: 20 ppm	No data.
5. Carbon dioxide	124-38-9	PEL: 5000 ppm	TLV: 5000 ppm STEL: 30,000 ppm	No data.

**Respiratory Equipment (Specify Type)**

Use in a well ventilated area.

**Eye Protection**

Wear safety glasses or goggles to protect against exposure.

**Protective Gloves**

No data available.

**Ventilation**

Exhaust ventilation.

**9. Physical and Chemical Properties**

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<b>Melting Point:</b>	NE
<b>Boiling Point:</b>	NE
<b>Autoignition Pt:</b>	500.00 F (260.0 C)
<b>Flash Pt:</b>	-9.00 F (-22.8 C) Method Used: TAG Closed Cup



<b>Explosive Limits:</b>	LEL: 1.1	UEL: 7.5
<b>Specific Gravity (Water = 1):</b>	NE	
<b>Bulk density:</b>	No data.	
<b>Vapor Pressure (vs. Air or mm Hg):</b>	NE	
<b>Vapor Density (vs. Air = 1):</b>	NE	
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	NE	
<b>Solubility in Water:</b>	NE	
<b>Percent Volatile:</b>	97.0 %	
<b>Heat Value:</b>	No data.	
<b>Particle Size:</b>	No data.	
<b>Corrosion Rate:</b>	No data.	
<b>pH:</b>	NE	
<b>Appearance and Odor</b>		
	Clear, colorless liquid.	

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

### Conditions To Avoid - Instability

Keep away from heat, sparks and flame. T

### Incompatibility - Materials To Avoid

Contact with oxidizing agents.

### Hazardous Decomposition Or Byproducts

Carbon monoxide.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

### Conditions To Avoid - Hazardous Reactions

No data available.

## 11. Toxicological Information

No data available.

### Carcinogenicity/Other Information

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Heptane	142-82-5	n.a.	n.a.	n.a.	n.a.
2. Toluene	108-88-3	n.a.	n.a.	A4	n.a.
3. Methanol	67-56-1	n.a.	n.a.	n.a.	n.a.
4. Ethanol, 2-Butoxy-	111-76-2	n.a.	n.a.	A3	n.a.
5. Carbon dioxide	124-38-9	n.a.	n.a.	n.a.	n.a.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

### Waste Disposal Method

Disposal should be made in accordance with federal, state and local regulations.

## 14. Transport Information

### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** ORM-D



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## Carb Clean International

<b>DOT Hazard Label:</b>	NONFLAMMABLE GAS, CORROSIVE
<b>UN/NA Number:</b>	UN1950
<b>DOT Hazard Class:</b>	9
<b>MARINE TRANSPORT (IMDG/IMO)</b>	
<b>IMDG/IMO Proper Shipping Name</b>	Aerosols
<b>UN Number:</b>	1950
<b>IMDG Classification:</b>	2
<b>Marine Pollutant:</b>	No

### 15. Regulatory Information

#### US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Heptane	142-82-5	No	No	No	No
2. Toluene	108-88-3	No	Yes 1000 LB	Yes	Yes
3. Methanol	67-56-1	No	Yes 5000 LB	Yes	No
4. Ethanol, 2-Butoxy-	111-76-2	No	No	Yes-Cat. N230	No
5. Carbon dioxide	124-38-9	No	No	No	No

#### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Heptane	142-82-5	No	No	Inventory, 8A PAIR	No
2. Toluene	108-88-3	HAP	Yes	Inventory, 8A CAIR	Yes
3. Methanol	67-56-1	HAP	No	Inventory	No
4. Ethanol, 2-Butoxy-	111-76-2	No	No	Inventory	No
5. Carbon dioxide	124-38-9	No	No	Inventory	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Heptane	142-82-5	Title 8	Yes	No	No
2. Toluene	108-88-3	TAC, Title 8	Yes	CMR, Part 5	Yes
3. Methanol	67-56-1	TAC, Title 8	Yes	Part 5	Yes
4. Ethanol, 2-Butoxy-	111-76-2	TAC, Title 8	Yes	No	No
5. Carbon dioxide	124-38-9	Title 8	Yes	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Heptane	142-82-5	1339	No	Yes - 1	No
2. Toluene	108-88-3	1866	Yes	Yes - E	Yes
3. Methanol	67-56-1	1222	Yes	Yes - E	Yes
4. Ethanol, 2-Butoxy-	111-76-2	0275	No	Yes - 1	No
5. Carbon dioxide	124-38-9	0343	No	Yes - 1	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Heptane	142-82-5	No
2. Toluene	108-88-3	Yes
3. Methanol	67-56-1	Yes
4. Ethanol, 2-Butoxy-	111-76-2	Yes
5. Carbon dioxide	124-38-9	Yes

#### International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Heptane	142-82-5	No	No	No
2. Toluene	108-88-3	No	No	No
3. Methanol	67-56-1	No	No	No
4. Ethanol, 2-Butoxy-	111-76-2	No	No	No
5. Carbon dioxide	124-38-9	No	No	No

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



- Sec.302:** EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. \* indicates 10000 LB TPQ if not volatile.
- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. \*\* indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

**TSCA (Toxic Substances Control Act) Lists:**

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

**Other Important Lists:**

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65
- CA TAC:** California AB 1807 - Toxic Air Contaminants
- CA Title 8:** California Hazardous Substances List: Title 8, Sec. 339
- MI CMR:** Michigan Critical Materials Register
- MI Part 5:** Michigan DEQ WRP Part 5 Pollutants List
- NC TAP:** North Carolina Toxic Air Pollutants
- NJ EHS:** New Jersey Environmental Hazardous Substances List
- NY Part 597:** New York Part 597 List of Hazardous Substances
- PA HSL:** Pennsylvania Hazardous Substances List
- SC TAP:** South Carolina Toxic Air Pollutants
- WI Air:** Wisconsin Reportable Air Contaminants

**International Regulatory Lists:**

- Canadian DSL:** Canada Domestic Substances List
- Canadian NDSL:** Canada Non-Domestic Substances List
- Taiwan TCSCA:** Taiwan Toxic Chemical Substances Control Act of 1986

**16. Other Information**

**Company Policy or Disclaimer**

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