



MATERIAL SAFETY DATA SHEET

Carb Clean 20% VOC

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

HEALTH		2
FLAMMABILITY		3
PHYSICAL HAZ.		2
PPE		



Revision: 02/18/2010

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1. Product and Company Identification

Product Code: C-1CA20VOC
Product Name: Carb Clean 20% VOC
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

Danger: Poison. Extremely flammable. Contents under pressure. Ingestion of even small amounts of methyl alcohol can cause blindness and death. This material is an eye and skin irritant. Harmful if absorbed through the skin. Keep away from heat, sparks and flame. Gross inhalation overexposure may cause: respiratory track irritation, kidney damage, blood, liver damage, lung damage and central nervous system depression.

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. Acetone	67-64-1	65.0 -75.0 %
2. Toluene	108-88-3	10.0 -15.0 %
3. Carbon dioxide	124-38-9	5.0 -15.0 %
4. Methanol	67-56-1	5.0 -10.0 %

4. First Aid Measures

Emergency and First Aid Procedures

If ingested, do not leave individual unattended. See medical attention immediately. Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and can cause severe lung damage. Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove contaminated clothing and shoes and launder before reuse. Wash skin with soap and water. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: -20.00 F (-28.9 C) Method Used: TAG Closed Cup
Explosive Limits: LEL: 2.5% UEL: 12.8%
Autoignition Pt: 725.00 F (385.0 C)



Special Fire Fighting Procedures

Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire.

Unusual Fire and Explosion Hazards

No data available.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide, formaldehyde.

Suitable Extinguishing Media

Dry chemical, carbon dioxide, alcohol foam. Use water spray to keep containers cool that are exposed to heat or flames.

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. Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames. Do not puncture or incinerate container. Contents under pressure. Leaking containers should be removed to an isolated, well ventilated area and transferred to other suitable containers. Wipe, scrape or soak up in an inert material and put in a container intended for flammable materials for disposal. Persons not trained should evacuate area. Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

7. Handling and Storage

Precautions To Be Taken in Handling

Caution: contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors. If exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture or incinerate. Keep out of the reach of children.

Precautions To Be Taken in Storing

Do not store above 120 degrees F. Exposure to high temperatures may cause bursting. Do not store in passenger compartment of automobile.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA TWA	ACGIH TWA	Other Limits
1. Acetone	67-64-1	PEL: 1000 ppm	TLV: 500 ppm STEL: 750 ppm	500ppmACGIH TLV TWA
2. Toluene	108-88-3	PEL: 200 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm	TLV: 50 ppm	No data.
3. Carbon dioxide	124-38-9	PEL: 5000 ppm	TLV: 5000 ppm STEL: 30,000 ppm	No data.
4. Methanol	67-56-1	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.

Respiratory Equipment (Specify Type)

Do not breathe mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

Eye Protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Protective Gloves

Wear protective clothing and gloves.



Other Protective Clothing

Wear protective clothing and gloves.

Ventilation

Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposure to within applicable limits. Showers. Eyewash stations.

9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	< -110.00 F (-78.9 C)		
Boiling Point:	133.00 F (56.1 C)		
Autoignition Pt:	725.00 F (385.0 C)		
Flash Pt:	-20.00 F (-28.9 C) Method Used: TAG Closed Cup		
Explosive Limits:	LEL: 2.5%	UEL: 12.8%	
Specific Gravity (Water = 1):	.81@68F		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	NE		
Vapor Density (vs. Air = 1):	2.0		
Evaporation Rate (vs Butyl Acetate=1):	NE		
Solubility in Water:	64%		
Percent Volatile:	20.0 %		
Heat Value:	No data.		
Particle Size:	No data.		
Corrosion Rate:	No data.		
pH:	NE		

Appearance and Odor

Colorless to pale yellow liquid. Mild odor.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 degrees F.

Incompatibility - Materials To Avoid

Nitric acid, sulfuric acid, strong acids, contact with strong oxidizing agents, chlorine compounds, alkalis, potassium t-butoxide, beryllium dihydride, magnesium, nitrogen tetraoxide, strong bases. Methanol has an explosive reaction with chloroform + sodium methoxide and diethyl zinc. Methanol has a violent reaction with alkyl aluminum salts, acetyl bromide, chloroform + sodium hydroxide, cyanuric chloride, nitric acid, etc.

Hazardous Decomposition Or Byproducts

Carbon monoxide, carbon dioxide, formaldehyde.

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.



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Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Acetone	67-64-1	n.a.	n.a.	A4	n.a.
2. Toluene	108-88-3	n.a.	n.a.	A4	n.a.
3. Carbon dioxide	124-38-9	n.a.	n.a.	n.a.	n.a.
4. Methanol	67-56-1	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

Residues and spilled material are hazardous waste due to ignitability. 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
DOT Hazard Label:	NONFLAMMABLE GAS, CORROSIVE
UN/NA Number:	UN1950
DOT Hazard Class:	9

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Proper Shipping Name	Aerosols (Limited Quantity)
UN Number:	1950
IMDG Classification:	2.1
Marine Pollutant:	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. Acetone	67-64-1	No	Yes 5000 LB	No	Yes
2. Toluene	108-88-3	No	Yes 1000 LB	Yes	Yes
3. Carbon dioxide	124-38-9	No	No	No	No
4. Methanol	67-56-1	No	Yes 5000 LB	Yes	No

Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
1. Acetone	67-64-1	No	No	Inventory	No
2. Toluene	108-88-3	HAP	Yes	Inventory, 8A CAIR	Yes
3. Carbon dioxide	124-38-9	No	No	Inventory	No
4. Methanol	67-56-1	HAP	No	Inventory	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Acetone	67-64-1	Title 8	Yes	Part 5	No
2. Toluene	108-88-3	TAC, Title 8	Yes	CMR, Part 5	Yes
3. Carbon dioxide	124-38-9	Title 8	Yes	No	No
4. Methanol	67-56-1	TAC, Title 8	Yes	Part 5	Yes

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Acetone	67-64-1	0006	Yes	Yes - E	No
2. Toluene	108-88-3	1866	Yes	Yes - E	Yes
3. Carbon dioxide	124-38-9	0343	No	Yes - 1	No
4. Methanol	67-56-1	1222	Yes	Yes - E	Yes

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Acetone	67-64-1	Yes



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2. Toluene	108-88-3	Yes
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4. Methanol	67-56-1	Yes

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Acetone	67-64-1	No	No	No
2. Toluene	108-88-3	No	No	No
3. Carbon dioxide	124-38-9	No	No	No
4. Methanol	67-56-1	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

Cyclo Industries, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose. Cyclo Industries, Inc. makes no representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose with respect to the information set forth herein or to the product to which the information refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.