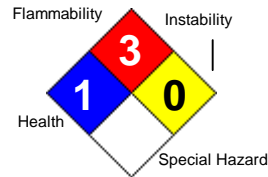




MATERIAL SAFETY DATA SHEET

Combustion Chamber Cleaner

CYCLO INDUSTRIES, INC.
902 SOUTH US HIGHWAY 1
JUPITER, FL 33477



Revision: 01/30/2012
Supersedes Revision: 09/30/2010
Date Created: 09/30/2010

1. Product and Company Identification

Product Code: C-88202

Product Name: Combustion Chamber Cleaner

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: Chemtrec (703) 527-3887 (800)424-9300

Information: First Aid Emergency (Outside U.S.) (312)906-6194

Web site address: www.cyclo.com

Email address: ehs@cyclo.com

2. Hazards Identification

Emergency Overview

DANGER: Flammable. Harmful or fatal if aspirated into the lungs. Vapor harmful. Eye and skin irritant. Contents under pressure.

Potential Health Effects (Acute and Chronic)

Ingestion: Ingestion of this product may cause nausea, vomiting and diarrhea. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Inhalation: High concentrations may cause respiratory irritation and central nervous system depression with results ranging from dizziness and headache to unconsciousness.

Eye Contact: Direct contact causes eye irritation. Symptoms will include pain, redness and tearing. Vapors will irritate the eyes.

Chronic Effects: Chronic overexposure to 2-Butoxyethanol may cause liver, kidney and blood damage. Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. SC-100 Solvent	64742-95-6	40.0 -60.0 %
2. Liquified petroleum gas, sweetened	68476-86-8	7.0 -13.0 %
3. Methyl isobutyl carbinol	108-11-2	3.0 -7.0 %
4. Ethanol, 2-Butoxy-	111-76-2	3.0 -7.0 %

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Hazardous Components (Chemical Name)	CAS #	Concentration
5. Ammonium hydroxide	1336-21-6	1.0 -5.0 %
6. Oleic acid	112-80-1	5.0 -10.0 %
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	3.0 -7.0 %

4. First Aid Measures**Emergency and First Aid Procedures**

If swallowed, do not induce vomiting. Never give anything by mouth if victim is rapidly losing consciousness, is unconscious or is convulsing. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. In case of skin contact, wash with soap and water. Remove contaminated clothing and launder before reuse. In case of eye contact, immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower lids. Remove contact lenses if any after initial flushing then continue flushing. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flammability Classification:	NFPA Aerosol Level 2
Flash Pt:	< 26.00 C (78.8 F) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data available.

Fire Fighting Instructions

Use NIOSH/MSHA approved positive pressure self-contained breathing apparatus when any material is involved in a fire. Flammable. Contents under pressure. Containers can build up pressure if exposed to heat (fire). Vapors are heavier than air and may travel or be moved along the ground to an ignition source at locations distant from material handling. Sprayed product will project a flame on contact with an ignition sources. Take precautionary measures against static discharges.

Flammable Properties and Hazards

No data available.

Hazardous Combustion Products

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

Suitable Extinguishing Media

Alcohol foam or water fog for large fires. Carbon dioxide or dry chemical for small fires. Use water spray to cool fire exposed containers and prevent bursting. Do not use a direct stream of water.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures**Steps To Be Taken In Case Material Is Released Or Spilled**

Contain spilled material. Avoid contamination of natural waterways. Wear suitable protective clothing. Follow applicable explosion and fire precautions during the response. Stop the spill at the source when safe to do so. For large spills, dike the area to prevent spreading. Pump excess to a salvage container. Absorb residues and small spills with a non-flammable absorbent material and collect adsorbate for disposal.

7. Handling and Storage**Precautions To Be Taken in Handling**

Use with adequate ventilation. Avoid breathing vapors. Use good personal hygiene. Avoid smoking, eating and drinking during use. Wash with soap and water after handling. Containers of this material may contain hazardous residues when emptied. Do not drill, cut, weld or grind on or near container. Keep out of the reach of children.



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Precautions To Be Taken in Storing

Flammable. Contents under pressure. Keep away from heat, sparks, flame and other sources of ignition. Store in a cool, dry, well ventilated area. Storage temperatures should not exceed 40 degrees C. Keep from freezing. Store at ambient temperatures above 10 degrees C.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. SC-100 Solvent	64742-95-6	No data.	No data.	No data.
2. Liquified petroleum gas, sweetened	68476-86-8	No data.	No data.	No data.
3. Methyl isobutyl carbinol	108-11-2	PEL: 25 ppm	TLV: 25 ppm STEL: 40 ppm	No data.
4. Ethanol, 2-Butoxy-	111-76-2	PEL: 50 ppm	TLV: 20 ppm	No data.
5. Ammonium hydroxide	1336-21-6	No data.	No data.	No data.
6. Oleic acid	112-80-1	No data.	No data.	No data.
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No data.	No data.	No data.

Respiratory Equipment (Specify Type)

Not normally required. If the TLV is exceeded, a NIOSH approved respirator is advised.

Eye Protection

Safety glasses. Contact lenses should not be worn. They may contribute to the severity of the injury.

Protective Gloves

Neoprene, nitrile.

Other Protective Clothing

Sufficient clothing to prevent skin contact.

Engineering Controls (Ventilation etc.)

Sufficient mechanical ventilation is not recommended as the sole means of controlling exposure. Make-up air should always be supplied to balance air exhausted.

Work/Hygienic/Maintenance Practices

Emergency showers and eyewash facilities should be nearby. The selection of personal protective equipment will vary depending on the conditions of use.

9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Melting Point:	No data.
Boiling Point:	No data.
Autoignition Pt:	No data.
Flash Pt:	< 26.00 C (78.8 F) Method Used: Pensky-Marten Closed Cup
Specific Gravity (Water = 1):	0.79 - 0.82 at 15.0 C (59.0 F)
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	> 1
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	Partial
Percent Volatile:	66.2 %
pH:	9.0 - 10.5

Appearance and Odor

Aerosol product. Amber color with ammonia, hydrocarbon odor.



10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

Stable at ambient temperatures and pressures. Avoid excessive heat, sparks and open flame.

Incompatibility - Materials To Avoid

Strong oxidizers such as HOOH, HNO₃ and oleum.

Hazardous Decomposition Or Byproducts

Carbon dioxide, carbon monoxide and other unidentified organic compounds.

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

Conditions To Avoid - Hazardous Reactions

No data available.

11. Toxicological Information

In rare cases, may sensitize the heart muscles causing heart arrhythmia. 2-Butoxyethanol is an experimental reproductive toxin.

Teratogenicity: In laboratory animal teratology studies on 2-Butoxyethanol, no embryotoxicity or lethality was observed without maternal effects (concentrations 100-300 ppm). These studies do not establish a risk of birth defects in humans.

Mutagenicity: The results of in-vitro mutagenicity tests have been inconclusive. In-vitro mutagenicity tests for 2-Butoxyethanol have been negative.

Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. SC-100 Solvent	64742-95-6	n.a.	n.a.	n.a.	n.a.
2. Liquified petroleum gas, sweetened	68476-86-8	n.a.	n.a.	n.a.	n.a.
3. Methyl isobutyl carbinol	108-11-2	n.a.	n.a.	n.a.	n.a.
4. Ethanol, 2-Butoxy-	111-76-2	n.a.	n.a.	A3	n.a.
5. Ammonium hydroxide	1336-21-6	n.a.	n.a.	n.a.	n.a.
6. Oleic acid	112-80-1	n.a.	n.a.	n.a.	n.a.
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

Solvents may be harmful to aquatic life. May be bioaccumulative but no food chain concentration potential.

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 Consumer Commodity

DOT Hazard Class: ORM-D

DOT Hazard Label: ORM-D

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Aerosols, Ltd. Qty., 2.1



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UN Number: 1950
Hazard Class: N.A.
IATA Classification: 2.1

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name: Aerosols, Ltd. Qty.
UN Number: 1950
Hazard Class: N.A.
IMDG Classification: 2.1

Additional Transport Information

No data available.

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. SC-100 Solvent	64742-95-6	No	No	No	No
2. Liquified petroleum gas, sweetened	68476-86-8	No	No	No	No
3. Methyl isobutyl carbinol	108-11-2	No	No	No	No
4. Ethanol, 2-Butoxy-	111-76-2	No	No	Yes-Cat. N230	No
5. Ammonium hydroxide	1336-21-6	No	Yes 1000 LB	No	No
6. Oleic acid	112-80-1	No	No	No	No
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	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. SC-100 Solvent	64742-95-6	No	No	Inventory	No
2. Liquified petroleum gas, sweetened	68476-86-8	No	No	Inventory	No
3. Methyl isobutyl carbinol	108-11-2	No	No	Inventory	No
4. Ethanol, 2-Butoxy-	111-76-2	No	No	Inventory	No
5. Ammonium hydroxide	1336-21-6	No	No	Inventory	No
6. Oleic acid	112-80-1	No	No	Inventory	No
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	Inventory	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. SC-100 Solvent	64742-95-6	No	No	No	No
2. Liquified petroleum gas, sweetened	68476-86-8	No	No	No	No
3. Methyl isobutyl carbinol	108-11-2	Title 8	No	No	No
4. Ethanol, 2-Butoxy-	111-76-2	TAC, Title 8	Yes	No	No
5. Ammonium hydroxide	1336-21-6	Title 8	Yes	Part 5	No
6. Oleic acid	112-80-1	No	No	No	No
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. SC-100 Solvent	64742-95-6	No	No	No	No
2. Liquified petroleum gas, sweetened	68476-86-8	No	No	No	No
3. Methyl isobutyl carbinol	108-11-2	Yes - 1228	No	Yes - 1	No
4. Ethanol, 2-Butoxy-	111-76-2	Yes - 0275	No	Yes - 1	No
5. Ammonium hydroxide	1336-21-6	Yes - 0103	Yes	Yes - E	No
6. Oleic acid	112-80-1	No	No	Yes - 1	No
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	No	No



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Hazardous Components (Chemical Name)	CAS #	WI Air
1. SC-100 Solvent	64742-95-6	No
2. Liquified petroleum gas, sweetened	68476-86-8	No
3. Methyl isobutyl carbinol	108-11-2	Yes
4. Ethanol, 2-Butoxy-	111-76-2	Yes
5. Ammonium hydroxide	1336-21-6	No
6. Oleic acid	112-80-1	No
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. SC-100 Solvent	64742-95-6	Yes	No	No
2. Liquified petroleum gas, sweetened	68476-86-8	Yes	No	No
3. Methyl isobutyl carbinol	108-11-2	Yes	No	No
4. Ethanol, 2-Butoxy-	111-76-2	Yes	No	No
5. Ammonium hydroxide	1336-21-6	Yes	No	No
6. Oleic acid	112-80-1	Yes	No	No
7. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	Yes	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



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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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