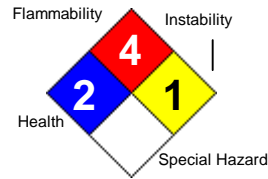




MATERIAL SAFETY DATA SHEET

Starting Fluid

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



Revision: 01/30/2012
Supersedes Revision: 05/14/2010
Date Created: 05/14/2010

1. Product and Company Identification

Product Code: C-99, C-100

Product Name: Starting Fluid

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: Extremely flammable. Harmful or fatal if swallowed. Vapor harmful. Eye & skin irritant. Contents under pressure.

Potential Health Effects (Acute and Chronic)

No data available.

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. Heptane	142-82-5	40.0 -50.0 %
2. Ethane, 1,1'-Oxybis-	60-29-7	23.0 -30.0 %
3. Propane	74-98-6	15.0 -25.0 %
4. Isobutane (2-Methylpropane)	75-28-5	5.0 -15.0 %
5. Carbon dioxide	124-38-9	2.0 -10.0 %
6. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	0.0 -5.0 %

4. First Aid Measures

Emergency and First Aid Procedures

If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. 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 eye contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes. Do not permit victim to rub eyes. In case of skin contact, wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse. Call physician immediately if adverse reaction occurs.



5. Fire Fighting Measures

Flammability Classification: NFPA Level 3 Aerosol
Flash Pt: < -10.00 F (-23.3 C) Method Used: TAG Closed Cup
Explosive Limits: LEL: 1.2 UEL: 6.7
Autoignition Pt: 365.00 F (185.0 C)

Fire Fighting Instructions

Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire. Fight from a maximum distance or use unmanned hose holders or monitor nozzles. Containers can build up pressure if exposed to heat; cool with flooding quantities of water until well after the fire is out. Withdraw immediately in case of rising sound from venting safety devices or discoloration of vessel.

Flammable Properties and Hazards

No data available.

Hazardous Combustion Products

Carbon Dioxide. Carbon Monoxide.

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 disposal. 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. Keep out of the reach of children.

Precautions To Be Taken in Storing

Do not puncture, incinerate or store above 120 degrees F. Exospore to high temperatures may cause bursting. Do not store in the passenger compartment of an automobile. Store in a cool, dry place, out of direct sunlight.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Heptane	142-82-5	PEL: 500 ppm	TLV: 400 ppm	No data.
2. Ethane, 1,1'-Oxybis-	60-29-7	PEL: 400 ppm	TLV: 400 ppm STEL: 500 ppm	No data.
3. Propane	74-98-6	PEL: 1000 ppm	TLV: (2500 ppm)	No data.
4. Isobutane (2-Methylpropane)	75-28-5	No data.	No data.	No data.
5. Carbon dioxide	124-38-9	PEL: 5000 ppm	TLV: 5000 ppm STEL: 30,000 ppm	No data.
6. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No data.	No data.	No data.



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Respiratory Equipment (Specify Type)

No data available.

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.

Engineering Controls (Ventilation etc.)

Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Work/Hygienic/Maintenance Practices

No data available.

9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	No data.		
Boiling Point:	-44.00 F (-42.2 C)		
Autoignition Pt:	365.00 F (185.0 C)		
Flash Pt:	< -10.00 F (-23.3 C)	Method Used: TAG Closed Cup	
Explosive Limits:	LEL: 1.2	UEL: 6.7	
Specific Gravity (Water = 1):	No data.		
Vapor Pressure (vs. Air or mm Hg):	NE		
Vapor Density (vs. Air = 1):	NE		
Evaporation Rate (vs Butyl Acetate=1):	NE		
Solubility in Water:	Partially		
Percent Volatile:	93.3 %		
Appearance and Odor	Colorless to pale yellow liquid. Pungent sweet 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

Contact with oxidizing agents. Concentrated oxygen. Nitric acid. Avoid contact with chlorine in the presence of light.

Hazardous Decomposition Or Byproducts

Carbon monoxide and other asphxiants. Explosive peroxides. Will react with nitric acid to form explosive nitrates.

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

Conditions To Avoid - Hazardous Reactions

No data available.



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11. Toxicological Information

No data available.

Chronic Toxicological Effects

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. Ethane, 1,1'-Oxybis-	60-29-7	n.a.	n.a.	n.a.	n.a.
3. Propane	74-98-6	n.a.	n.a.	n.a.	n.a.
4. Isobutane (2-Methylpropane)	75-28-5	n.a.	n.a.	n.a.	n.a.
5. Carbon dioxide	124-38-9	n.a.	n.a.	n.a.	n.a.
6. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	n.a.	n.a.	n.a.	n.a.

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	Consumer Commodity
DOT Hazard Class:	ORM-D
DOT Hazard Label:	ORM-D

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name	Aerosols, Ltd. Qty.
UN Number:	1950
Hazard Class:	N.A.
IMDG Classification:	2.1
Marine Pollutant:	No

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. Heptane	142-82-5	No	No	No	No
2. Ethane, 1,1'-Oxybis-	60-29-7	No	Yes 100 LB	No	Yes
3. Propane	74-98-6	No	No	No	No
4. Isobutane (2-Methylpropane)	75-28-5	No	No	No	No
5. Carbon dioxide	124-38-9	No	No	No	No
6. 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. Heptane	142-82-5	No	No	Inventory, 8A PAIR	No



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Hazardous Components (Chemical Name)	CAS #	CAA HAP,ODC	CWA NPDES	TSCA	CA PROP.65
2. Ethane, 1,1'-Oxybis-	60-29-7	No	No	Inventory, 8A PAIR	No
3. Propane	74-98-6	No	No	Inventory	No
4. Isobutane (2-Methylpropane)	75-28-5	No	No	Inventory	No
5. Carbon dioxide	124-38-9	No	No	Inventory	No
6. 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. Heptane	142-82-5	Title 8	Yes	No	No
2. Ethane, 1,1'-Oxybis-	60-29-7	Title 8	Yes	Part 5	No
3. Propane	74-98-6	No	Yes	No	No
4. Isobutane (2-Methylpropane)	75-28-5	No	Yes	No	No
5. Carbon dioxide	124-38-9	Title 8	Yes	No	No
6. 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. Heptane	142-82-5	Yes - 1339	No	Yes - 1	No
2. Ethane, 1,1'-Oxybis-	60-29-7	Yes - 0701	Yes	Yes - E	No
3. Propane	74-98-6	Yes - 1594	No	Yes - 1	No
4. Isobutane (2-Methylpropane)	75-28-5	Yes - 1040	No	Yes - 1	No
5. Carbon dioxide	124-38-9	Yes - 0343	No	Yes - 1	No
6. Mineral oil, petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Heptane	142-82-5	No
2. Ethane, 1,1'-Oxybis-	60-29-7	No
3. Propane	74-98-6	No
4. Isobutane (2-Methylpropane)	75-28-5	No
5. Carbon dioxide	124-38-9	Yes
6. 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. Heptane	142-82-5	Yes	No	No
2. Ethane, 1,1'-Oxybis-	60-29-7	Yes	No	No
3. Propane	74-98-6	Yes	No	No
4. Isobutane (2-Methylpropane)	75-28-5	Yes	No	No
5. Carbon dioxide	124-38-9	Yes	No	No
6. 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:



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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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