

1. Product and Company Identification

Product Code: C-39
Product Name: Foaming Engine Clean Degreaser
Company Name: CYCLO INDUSTRIES, INC.
 902 SOUTH US HIGHWAY 1
 JUPITER, FL 33477
Phone Number: (800)843-7813

Web site address: www.cyclo.com

Emergency Contact: First Aid Emergency (800)222-1222
 CHEMTREC (703) 527-3887 (800)424-9300

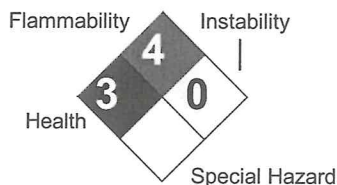
Information: First Aid Emergency (Outside U.S.) (312)906-6194

2. Hazards Identification

Emergency Overview: DANGER: Extremely flammable. Vapor may cause flash fire. Vapor harmful. Eye & skin irritant. Contents under pressure.

Hazard Rating System:

HEALTH	2
FLAMMABILITY	4
PHYSICAL	2
PPE	



Potential Health Effects (Acute and Chronic):

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
68477-31-6	Distillates, Petroleum, catalytic reformer fractionator resi	8.0 -12.0 %
111-76-2	Ethanol, 2-Butoxy-	7.0 -11.0 %
78330-19-5	Alcohols, C7-9-iso-, C8-rich, ethoxylated	2.0 -7.0 %
NA	NP-9 Surfactant	2.0 -4.0 %
106-97-8	Butane	-1.0 -3.0 %
74-98-6	Propane	1.0 -3.0 %
NA	NP-4 Surfactant	0.5 -2.0 %
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	< 2.0 %
NA	DeTrobe CA-100 Mixture	< 2.0 %



4. First Aid Measures

Emergency and First Aid Procedures:

If swallowed, induce vomiting immediately as directed by medical personnel. Never give fluids or induce vomiting if victim is unconscious or having convulsions. 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. In case of skin contact, wash with soap and water for 15 minutes. Remove contaminated clothing and shoes and launder before reuse. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flammability Classification: NFPA Level 1 Aerosol

Flash Pt: -200.00 F (-128.9 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: 1.1 UEL: No data.

Autoignition Pt: 460.00 F (237.8 C)

Suitable Extinguishing Media: Dry chemical. Carbon dioxide. Foam. Use water spray to keep containers cool that are exposed to heat or flames.

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

Flammable Properties and Hazards: -200 F Flash Point of Propellant (TCC)

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. Exposure to high temperatures may cause bursting. Do not store in the passenger compartment of an automobile.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
68477-31-6	Distillates, Petroleum, catalytic reformer fractionator resi	No data.	No data.	No data.
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	No data.
78330-19-5	Alcohols, C7-9-iso-, C8-rich, ethoxylated	No data.	No data.	No data.
NA	NP-9 Surfactant	No data.	No data.	No data.



Foaming Engine Clean Degreaser

Printed: 11/07/2012
Revision: 10/22/2012
Supersedes Revision: 01/30/2012

106-97-8	Butane	No data.	TLV: (800 ppm)	No data.
74-98-6	Propane	PEL: 1000 ppm	TLV: (2500 ppm)	No data.
NA	NP-4 Surfactant	No data.	No data.	No data.
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	No data.	No data.	No data.
NA	DeTrobe CA-100 Mixture	No data.	No data.	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: Avoid skin contact. Wear protective gloves.

Other Protective Clothing: Avoid skin contact. Wear protective clothing.

Engineering Controls (Ventilation etc.): Use in a well-ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Colorless to light yellow liquid with a slight alcohol odor.

Melting Point: No data.

Boiling Point: No data.

Autoignition Pt: 460.00 F (237.8 C)

Flash Pt: -200.00 F (-128.9 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: 1.1 UEL: No data.

Specific Gravity (Water = 1): .98@60F

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): No data.

Evaporation Rate: No data.

Solubility in Water: No data.

pH: 9.0

Percent Volatile: No data.

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.

Hazardous Decomposition Or Byproducts: Carbon dioxide. Carbon monoxide. Oxides of nitrogen.

Polymer: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information: No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
68477-31-6	Distillates, Petroleum, catalytic reformer fractionator resi	68477-31-6 n.a.	n.a.	n.a.	n.a.
111-76-2	Ethanol, 2-Butoxy-	111-76-2 n.a.	3	A3	n.a.
78330-19-5	Alcohols, C7-9-iso-, C8-rich, ethoxylated	n.a.	n.a.	n.a.	n.a.
NA	NP-9 Surfactant	n.a.	n.a.	n.a.	n.a.
106-97-8	Butane	106-97-8 n.a.	n.a.	n.a.	n.a.
74-98-6	Propane	74-98-6 n.a.	n.a.	n.a.	n.a.
NA	NP-4 Surfactant	n.a.	n.a.	n.a.	n.a.
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9 n.a.	n.a.	n.a.	n.a.
NA	DeTrobe CA-100 Mixture	n.a.	n.a.	n.a.	n.a.

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: Consumer Commodity
DOT Hazard Class: ORM-D ORM-D
UN/NA Number:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Aerosols (Limited Quantity)
UN Number: 1950 **Packing Group:** II
Hazard Class: N.A. **IMDG Classification:** 2.1
Marine Pollutant: No

15. Regulatory Information

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

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
68477-31-6	Distillates, Petroleum, catalytic reformer fractionator resi	No	No	No
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
78330-19-5	Alcohols, C7-9-iso-, C8-rich, ethoxylated	No	No	No
NA	NP-9 Surfactant	No	No	No
106-97-8	Butane	No	No	No
74-98-6	Propane	No	No	No
NA	NP-4 Surfactant	No	No	No
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	No	No	No



Foaming Engine Clean Degreaser

Printed: 11/07/2012
Revision: 10/22/2012
Supercedes Revision: 01/30/2012

NA	DeTrobe CA-100 Mixture	No	No	No
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists		
68477-31-6	Distillates, Petroleum, catalytic reformer fractionator resi	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
111-76-2	Ethanol, 2-Butoxy-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: Yes - Cat.; NJ EHS: Yes - 0275; NY Part 597: No; PA HSL: Yes - 1; SC TAP: Yes - Cat.; WI Air: Yes		
78330-19-5	Alcohols, C7-9-iso-, C8-rich, ethoxylated	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
NA	NP-9 Surfactant	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
106-97-8	Butane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0273; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No		
74-98-6	Propane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 1594; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No		
NA	NP-4 Surfactant	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
NA	DeTrobe CA-100 Mixture	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: No		
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists		
68477-31-6	Distillates, Petroleum, catalytic reformer fractionator resi	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: No		
111-76-2	Ethanol, 2-Butoxy-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: No		
78330-19-5	Alcohols, C7-9-iso-, C8-rich, ethoxylated	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: No		
NA	NP-9 Surfactant	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No		
106-97-8	Butane	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: No		
74-98-6	Propane	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: No		
NA	NP-4 Surfactant	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No		
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: No		



Foaming Engine Clean Degreaser

Printed: 11/07/2012

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NA

DeTrobe CA-100 Mixture

Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No

16. Other Information

Additional Information About No data available.

This Product:

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.