

1. Product and Company Identification

Product Code: C39
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
Email address: ehs@cyclo.com

Emergency Contact: First Aid Emergency (800)752-7869
CHEMTREC (703) 527-3887 (800)424-9300
Information: First Aid Emergency (Outside U.S.) (312)906-6194

Intended Use: Engine Clean Degreaser

2. Hazards Identification

Acute Toxicity: Inhalation, Category 4
Acute Toxicity: Oral, Category 4
Acute Toxicity: Skin, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 1
Specific Target Organ Toxicity (repeated exposure), Category 2
Aspiration Toxicity, Category 1
Flammable Aerosols, Category 1



GHS Signal Word: Danger

GHS Hazard Phrases: H222: Extremely flammable aerosol.
H302: Harmful if swallowed.
H304: May be fatal if swallowed and enters airways.
H312: Harmful in contact with skin.
H316: Causes mild skin irritation.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H373: May cause damage to organs through prolonged or repeated exposure.
H411: Toxic to aquatic life with long lasting effects.
H229: Pressurized container: May burst if heated.

GHS Precaution Phrases: P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P211: Do not spray on an open flame or any other ignition source.
P260: Do not breathe dust/fume/gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P362+364: Take off contaminated clothing and wash it before reuse.

GHS Response Phrases: P370+378: In case of fire, use aFoam, alcohol foam, CO2, dry chemical, water fog to extinguish.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



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P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P363: Wash contaminated clothing before reuse.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

GHS Storage and Disposal Phrases:

P405: Store locked up.

P410+412: Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Inhalation:

Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.

Skin Contact:

Contact may dry the skin; prolonged contact may cause moderate irritation.

Eye Contact:

Liquid or vapor can cause moderate to severe irritation.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	4.0 %
111-76-2	Ethanol, 2-Butoxy-	3.0 %
106-97-8	Butane	3.0 %
64742-88-7	Solvent naphtha medium aliphatic	2.0 %
74-98-6	Propane	1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

If swallowed, do not induce vomiting. If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen. If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of skin contact, remove contaminated clothing and shoes and launder before reuse. Wash with soap and water for 15 minutes. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: -156.00 F (-104.4 C) Method Used: TAG Closed Cup

Explosive Limits: LEL: .7 UEL: 12.7

Autoignition Pt: No data.

Suitable Extinguishing Media: Foam, alcohol foam, CO2, dry chemical, water fog.

Fire Fighting Instructions: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Closed containers may explode from internal pressure build up when exposed to extreme heat & discharge contents. Liquid content of containers may cause a health hazard. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent.

Flammable Properties and Hazards: Water may be used to cool containers to prevent pressure build up & explosion when exposed to extreme heat. If water is used, fog nozzles preferred.

Hazardous Combustion Products: No data available.



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6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Keep away from heat/sparks/open flames/hot surfaces - No smoking. Do not spray on an open flame or any other ignition source. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash it before reuse. Keep out of the reach of children.

7. Handling and Storage

Precautions To Be Taken in Handling: Store & use in cool, dry, well ventilated areas. Do not puncture or incinerate container. Do not stick pin, nail or any other sharp object into opening on the top of can. Do not spray in eyes. Do not take internally. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Keep out of the reach of children.

Precautions To Be Taken in Storing: Store locked up. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	No data.	No data.	No data.
111-76-2	Ethanol, 2-Butoxy-	PEL: 50 ppm	TLV: 20 ppm	No data.
106-97-8	Butane	No data.	TLV: (800 ppm)	No data.
64742-88-7	Solvent naphtha medium aliphatic	No data.	No data.	No data.
74-98-6	Propane	PEL: 1000 ppm	TLV: (2500 ppm)	No data.

Respiratory Equipment (Specify Type): Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles & vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

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

Protective Gloves: Solvent resistant gloves required for prolonged or repeated contact.

Other Protective Clothing: Use of solvent resistant aprons or other clothing is recommended.

Engineering Controls (Ventilation etc.): Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/TLV of most hazardous ingredient below acceptable limit & LEL below stated limit.

Work/Hygienic/Maintenance Practices: Use in a well ventilated area. To prevent vapor build up, open doors & windows or use an explosion-proof exhaust fan to ensure fresh air exchange during & after use. Do not breathe vapor, gas or spray mist.



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9. Physical and Chemical Properties

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Clear, colorless to slightly discolored solution with aromatic odor.
pH:	No data.
Melting Point:	No data.
Boiling Point:	-44.00 F (-42.2 C) - -336.00 F (-204.4 C)
Flash Pt:	-156.00 F (-104.4 C) Method Used: TAG Closed Cup
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: .7 UEL: 12.7
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	.96
Solubility in Water:	COMPLETE
Octanol/Water Partition Coefficient:	No data.
Percent Volatile:	9.9 % by weight.
Autoignition Pt:	No data.
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Application to hot surfaces. Storage above 120F. Exposure to open flame.
Incompatibility - Materials To Avoid:	Contact with oxidizing agents.
Hazardous Decomposition or Byproducts:	May produce fumes when heated to decomposition. Fumes may contain carbon monoxide & other toxic fumes.
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

Toxicological Information: No data available.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	n.a.	n.a.	n.a.	n.a.
111-76-2	Ethanol, 2-Butoxy-	n.a.	3	A3	n.a.
106-97-8	Butane	n.a.	n.a.	n.a.	n.a.
64742-88-7	Solvent naphtha medium aliphatic	n.a.	n.a.	n.a.	n.a.
74-98-6	Propane	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Dispose of contents/container in accordance with local/regional/national/international regulation.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Aerosols, 2.1 Ltd. Qty.
DOT Hazard Class: 2.1 FLAMMABLE GAS
UN/NA Number: UN1950

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Aerosols, 2.1 Ltd. Qty.
UN Number: 1950
Hazard Class: 2.1 - FLAMMABLE GAS **ADR Classification:** 2.1

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Aerosols, 2.1 Ltd. Qty.
UN Number: 1950
Hazard Class: 2.1 - FLAMMABLE GAS **Packing Group:**
IMDG Classification: 2.1
IMDG MFAG Number:
IMDG EMS Page: **Marine Pollutant:** No

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Aerosols, flammable, 2.1, Ltd. Qty.
UN Number: 1950
Hazard Class: 2.1 - FLAMMABLE GAS **IATA Classification:** 2.1

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)
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	No	No	No
111-76-2	Ethanol, 2-Butoxy-	No	No	Yes-Cat. N230
106-97-8	Butane	No	No	No
64742-88-7	Solvent naphtha medium aliphatic	No	No	No
74-98-6	Propane	No	No	No



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Revision: 09/05/2017

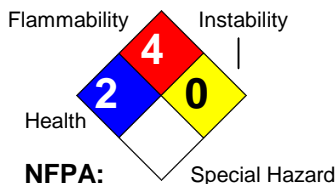
Supersedes Revision: 05/07/2014

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8A PAIR, 12(b); 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: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Yes - Cat.; NC TAP: Yes - Cat.; NJ EHS: Yes - Cat.; NY Part 597: No; PA HSL: Yes - 1; SC TAP: Yes - Cat.; WI Air: Yes
106-97-8	Butane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - 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
64742-88-7	Solvent naphtha medium aliphatic	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - 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
74-98-6	Propane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - 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
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: 165-02 (1)
111-76-2	Ethanol, 2-Butoxy-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
106-97-8	Butane	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
64742-88-7	Solvent naphtha medium aliphatic	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
74-98-6	Propane	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

16. Other Information

Revision Date: 09/05/2017

Hazard Rating System:



Additional Information About Not for sale in CA.

This Product:

Company Policy or

Disclaimer:

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refers. Accordingly, Cyclo Industries, Inc. will not be responsible for damages resulting from use of or reliance upon this information.