

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** C39
Product Name: Foaming Engine Clean Degreaser
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
Relevant identified uses: Engine Clean Degreaser
- 1.3 Details of the Supplier of the Safety Data Sheet:**
- | | | |
|--------------------------|---|---------------------------------------|
| Company Name: | CYCLO INDUSTRIES, INC.
902 SOUTH US HIGHWAY 1
JUPITER, FL 33477 USA | Phone Number:
(800)843-7813 |
| Web site address: | www.cyclo.com | |
| Email address: | ehs@cyclo.com | |
| Information: | First Aid Emergency (Outside U.S.) | (312)906-6194 |
- 1.4 Emergency telephone number:**
- | | | |
|---------------------------|-------------------------|---------------|
| Emergency Contact: | First Aid Emergency | (800)752-7869 |
| | CHEMTREC (703) 527-3887 | (800)424-9300 |

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
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
Aquatic Toxicity (Chronic), Category 2

2.2 Label Elements:



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.



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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.
- 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.

2.3 Adverse Human Health**Effects and Symptoms:**

- 2.3.1 Inhalation:** Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.
- 2.3.2 Skin Contact:** Contact may dry the skin; prolonged contact may cause moderate irritation.
- 2.3.3 Eye Contact:** Liquid or vapor can cause moderate to severe irritation.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	4.0 %	500-024-6 NA	STOT (RE) 2: H373
111-76-2	Ethanol, 2-Butoxy-	3.0 %	203-905-0 603-014-00-0	Acute Tox.(O) 4: H302 Acute Tox.(D) 4: H312 Skin Corr. 2: H315 Eye Damage 2A: H319 Acute Tox.(I) 4: H332
106-97-8	Butane	3.0 %	203-448-7 601-004-01-8	Comp. Gas: H280 Flam. Gas 1: H220
64742-88-7	Solvent naphtha medium aliphatic	2.0 %	265-191-7 649-405-00-X	Asp. Toxic. 1: H304
74-98-6	Propane	1.0 %	200-827-9 601-003-00-5	Comp. Gas: H280 Flam. Gas 1: H220



Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** 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.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Foam, alcohol foam, CO₂, dry chemical, water fog.
- 5.2 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.
No data available.
- Flash Pt:** -156.00 F (-104.4 C) Method Used: TAG Closed Cup
- Explosive Limits:** LEL: .7 UEL: 12.7
- Autoignition Pt:** No data.
- 5.3 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.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions, Protective Equipment and Emergency Procedures:** No data available.
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** 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.

Section 7. Handling and Storage

- 7.1 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.
- 7.2 Precautions To Be Taken in Storing:** Store locked up. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F.



Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
111-76-2	Ethanol, 2-Butoxy-	ACGIH TLV	TLV: 20 ppm	
		Europe	TWA: 98 mg/m3 (20 ppm) STEL: 246 mg/m3 (50 ppm)	Skin Absorption
		France VL	TWA: 9.8 mg/m3 (2 ppm) STEL: 147.6 mg/m3 (30 ppm)	
		OSHA PELs	PEL: 50 ppm	
		Britain EH40	TWA: 123 mg/m3 (25 ppm) STEL: 246 mg/m3 (50 ppm)	Skin Absorption
106-97-8	Butane	ACGIH TLV	TLV: (800 ppm)	
		France VL	TWA: 1900 mg/m3 (800 ppm)	
		Britain EH40	TWA: 1450 mg/m3 (600 ppm) STEL: 1810 mg/m3 (750 ppm)	
74-98-6	Propane	ACGIH TLV	TLV: (2500 ppm)	
		OSHA PELs	PEL: 1000 ppm	

8.2 Exposure Controls:

8.2.1 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.

8.2.2 Personal protection equipment:

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.

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.

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.

No data available.



Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: Gas 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.
Autoignition Pt: No data.
Decomposition Temperature: No data.
Viscosity: No data.

9.2 Other Information

Percent Volatile: 9.9 % by weight.

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.
10.2 Stability: Unstable Stable
10.3 Conditions To Avoid - Hazardous Reactions: No data available.
Possibility of Hazardous Reactions: Will occur Will not occur
10.4 Conditions To Avoid - Instability: Application to hot surfaces. Storage above 120F. Exposure to open flame.
10.5 Incompatibility - Materials To Avoid: Contact with oxidizing agents.
10.6 Hazardous Decomposition or Byproducts: May produce fumes when heated to decomposition. Fumes may contain carbon monoxide & other toxic fumes.



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Section 11. Toxicological Information

11.1 Information on Toxicological Effects: 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.

Section 12. Ecological Information

12.1 Toxicity: No data available.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: No data available.

Section 13. Disposal Considerations

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

Section 14. Transport Information

14.1 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

14.2 MARINE TRANSPORT (IMDG/IMO):

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

14.3 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



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Section 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

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



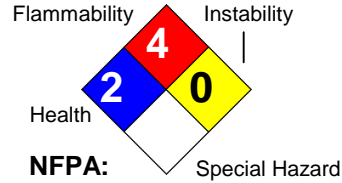
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Section 16. Other Information

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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