

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:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**  
**Company Name:** CYCLO INDUSTRIES, INC. **Phone Number:**  
902 SOUTH US HIGHWAY 1 (800)843-7813  
JUPITER, FL 33477  
**Web site address:** www.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:**  
**2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
Acute Toxicity: Inhalation, Category 4  
Acute Toxicity: Oral, Category 4  
Acute Toxicity: Skin, Category 4  
Skin Corrosion/Irritation, Category 3  
Serious Eye Damage/Eye Irritation, Category 2A  
Target Organ Systemic Toxicity (repeated exposure), Category 2  
Aspiration Toxicity, Category 1
- 2.1.2 Classification according to Directive 1999/45/EC:**
- 2.2 Label Elements:**  
**2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:**



**GHS Signal Word:** Danger

**GHS Hazard Phrases:**

H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H312: Harmful in contact with skin.  
H316: Causes mild skin irritation.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H373: May cause damage to organs through prolonged or repeated exposure.  
H280: Contents under pressure. May explode if heated.

**GHS Precaution Phrases:**

P271: Use only outdoors or in a well-ventilated area.  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264: Wash hands thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P362+364: Take off contaminated clothing and wash it before reuse.

**GHS Response Phrases:**

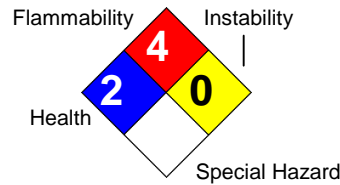
P301+P330+P331: IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.  
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P302+352: IF ON SKIN: Wash with plenty of soap and water.  
P332+313: If skin irritation occurs, get medical advice/attention.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+313: If eye irritation persists, get medical advice/attention.  
P314: Get medical attention/advice if you feel unwell.

### GHS Storage and Disposal Phrases:

P501: Dispose of contents/container in accordance with local/regional/national/international regulation.  
P405: Store locked up.

## 2.2.2 Labeling according to Directive 1999/45/EC:

### Hazard Rating System:



## 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.	Risk Phrases/ GHS Classification
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	4.0 %	500-024-6 NA	Xi; R37/38-41 TOST (RE) 2: H373
111-76-2	Ethanol, 2-Butoxy-	3.0 %	203-905-0 603-014-00-0	Xn; R20/21/22-36/38 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	F+; T; R45-46-12 Flam. Gas 1: H220 Comp. Gas: H280
64742-88-7	Solvent naphtha medium aliphatic	2.0 %	265-191-7 649-405-00-X	Xn; R65 Asp. Toxic. 1: H304
74-98-6	Propane	1.0 %	200-827-9 601-003-00-5	F+; R12 Comp. Gas: H280 Flam. Gas 1: H220



# SAFETY DATA SHEET

## Foaming Engine Clean Degreaser

Page: 3

Revision: 05/07/2014

Supersedes Revision: 01/24/2014

### 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, CO<sub>2</sub>, 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.
- 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

- 6.3 Methods and Material For Containment and Cleaning Up:** Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Clean up area with absorbent material & place in closed containers for disposal.

### 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:** Do not store above 120 degrees F.

### Section 8. Exposure Controls/Personal Protection

#### 8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
9016-45-9	Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	No data.	No data.	No data.
111-76-2	Ethanol, 2-Butoxy-	TWA: 123 mg/m3 (25 ppm) STEL: 246 mg/m3 (50 ppm)	TWA: 9.8 mg/m3 (2 ppm) STEL: 147.6 mg/m3 (30 ppm)	TWA: 98 mg/m3 STEL: 246 mg/m3
106-97-8	Butane	TWA: 1450 mg/m3 (600 ppm) STEL: 1810 mg/m3 (750 ppm)	TWA: 1900 mg/m3 (800 ppm)	No data.
64742-88-7	Solvent naphtha medium aliphatic	No data.	No data.	No data.
74-98-6	Propane	No data.	No data.	No data.



# SAFETY DATA SHEET

## Foaming Engine Clean Degreaser

Page: 4

Revision: 05/07/2014

Supersedes Revision: 01/24/2014

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.

### 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.

## Section 9. Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

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

**Appearance and Odor:** Clear, colorless to slightly discolored solution with aromatic odor.

**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.

**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

**Autoignition Pt:** No data.



# SAFETY DATA SHEET

## Foaming Engine Clean Degreaser

Page: 5

Revision: 05/07/2014  
Supersedes Revision: 01/24/2014

### 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 [ X ]
- 10.3 Conditions To Avoid - Hazardous Reactions:** No data available.
- Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]
- 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.

## 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

## 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 (US DOT):

**DOT Proper Shipping Name:** Consumer Commodity  
**DOT Hazard Class:** ORM-D ORM-D  
**UN/NA Number:**

### 14.1 LAND TRANSPORT (European ADR/RID):

**ADR/RID Shipping Name:** Aerosols, Ltd. Qty.  
**UN Number:**  
**Hazard Class:** N.A. **ADR Classification:** 2.1



# SAFETY DATA SHEET

## Foaming Engine Clean Degreaser

Page: 6

Revision: 05/07/2014  
Supersedes Revision: 01/24/2014

### 14.2 MARINE TRANSPORT (IMDG/IMO):

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

**Packing Group:**  
**IMDG Classification:** 2.1  
**Marine Pollutant:** No

### 14.3 AIR TRANSPORT (ICAO/IATA):

**ICAO/IATA Shipping Name:** Aerosols, flammable, 2.1, Ltd. Qty.  
**UN Number:** 1950  
**Hazard Class:** N.A.

**IATA Classification:** 2.1

## 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: 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
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
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
64742-88-7	Solvent naphtha medium aliphatic	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: Yes - 4006; 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: 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: Yes
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



# SAFETY DATA SHEET

## Foaming Engine Clean Degreaser

Page: 7

74-98-6 Propane

Revision: 05/07/2014

Supersedes Revision: 01/24/2014

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

**European Community Hazard Symbol codes:**

**European Community Risk and Safety Phrases:**

No data available.

### Section 16. Other Information

**Revision Date:** 05/07/2014

**Additional Information About This Product:** Not for sale in CA.

**Company Policy or**

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