



SAFETY DATA SHEET

Engine Coolant, 55Gallon

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Revision: 04/04/2014

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

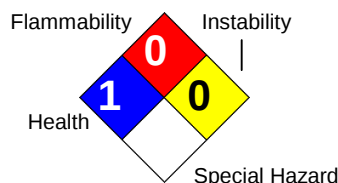
Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** C530D
Product Name: Engine Coolant, 55Gallon
- 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]:
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:
GHS Hazard Phrases:
No phrases apply.
GHS Precaution Phrases:
No phrases apply.
GHS Response Phrases:
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331: 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.
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.
P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.
GHS Storage and Disposal Phrases:
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.
- 2.2.2 Labeling according to Directive 1999/45/EC:**

Hazard Rating System:



2.3 Adverse Human Health Eyes: May cause eye irritation characterized by tearing, pain, redness, blurred vision, Effects and Symptoms: and/or swelling.

Oral: If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

Inhalation: Breathing the vapor or mist at concentrations in air that exceed the ACGIH TLV, or in unusually high concentrations, as from exposure in poorly ventilated areas or confined spaces, may be irritating to the nose, throat and respiratory tract. Other symptoms of overexposure may include headache, nausea, dizziness and/or drowsiness.

Skin: Brief contact may cause slight irritation. Prolonged contact may cause more severe irritation and discomfort, seen as local redness and swelling.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	Risk Phrases/ GHS Classification
7732-18-5	Water	75.0 -90.0 %	231-791-2 NA	No phrases apply. No data available.
NA	Glycol Blend	< 5.0 %	NA NA	No data available. No data available.
NA	Anti-oxident, Rust Inhibitor Additives	< 5.0 %	NA NA	No data available. No data available.
NA	Proprietary	< 5.0 %	NA NA	No data available. No data available.
NA	Organic Acids	< 5.0 %	NA NA	No data available. No data available.

Section 4. First Aid Measures

4.1 Description of First Aid Measures: If swallowed, do not induce vomiting. If inhaled, remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. In case of skin contact, wipe off with towel. Wash area with soap and water. In case of eye contact, flush with water for at least 15 minutes. Remove contact lenses if present. Call physician immediately if adverse reaction occurs.

Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Media: Water fog, dry chemical, foam or CO2.

5.2 Flammable Properties and Hazards: No data available.

Flash Pt: NE

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

5.3 Fire Fighting Instructions: For fires involving this material, do not enter any enclosed or confined space without self-contained breathing apparatus to protect against the hazardous effects of combustion products or oxygen deficiency.



Section 6. Accidental Release Measures

- 6.3 Methods and Material For Containment and Cleaning Up:** Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing. Cover spill with a generous amount of inert absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container. Prevent contamination of groundwater or surface water.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** No data available.
- 7.2 Precautions To Be Taken in Storing:** Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
7732-18-5	Water	No data.	No data.	No data.
NA	Glycol Blend	No data.	No data.	No data.
NA	Anti-oxidant, Rust Inhibitor Additives	No data.	No data.	No data.
NA	Proprietary	No data.	No data.	No data.
NA	Organic Acids	No data.	No data.	No data.
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7732-18-5	Water	No data.	No data.	No data.
NA	Glycol Blend	No data.	No data.	No data.
NA	Anti-oxidant, Rust Inhibitor Additives	No data.	No data.	No data.
NA	Proprietary	No data.	No data.	No data.
NA	Organic Acids	No data.	No data.	No data.

8.2 Exposure Controls:

- 8.2.1 Engineering Controls (Ventilation etc.):** Under normal applications of this product, general dilution ventilation is adequate.

8.2.2 Personal protection equipment:

- Eye Protection:** Avoid eye contact. The wearing of chemical safety goggles or face shield is recommended.
- Protective Gloves:** Avoid contact with skin or clothing. Skin contact can be minimized by wearing impervious protective clothing including gloves. Protective clothing made from neoprene, nitrile, or n-butyl rubber is suitable in these applications.
- Other Protective Clothing:** Avoid contact with skin or clothing. Skin contact can be minimized by wearing impervious protective clothing including gloves. Protective clothing made from neoprene, nitrile, or n-butyl rubber is suitable in these applications.
- Respiratory Equipment (Specify Type):** None required when handling at minimum feasible temperatures. However, an approved respirator is recommended if operating conditions generate vapor, mists or fumes, and if exposure cannot adequately be controlled by local exhaust ventilation



Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: ☐ Gas ☒ Liquid ☐ Solid
Appearance and Odor: Green liquid.
pH: 7 - 9
Melting Point: No data.
Boiling Point: No data.
Flash Pt: NE
Evaporation Rate: No data.
Explosive Limits: LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg): No data.
Vapor Density (vs. Air = 1): No data.
Specific Gravity (Water = 1): No data.
Density: 1.006
Solubility in Water: Soluble
Autoignition Pt: No data.

9.2 Other Information

Percent Volatile: No data.

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:** No data available.
- 10.5 Incompatibility - Materials To Avoid:** No data available.
- 10.6 Hazardous Decomposition Or Byproducts:** No data available.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects:

This material contains 2-ethylhexanoic acid. The primary human health effect reported is irritation to the eyes and skin. The major health effects observed in animals following repeated oral administration are on the liver and reproductive/developmental system in high doses. While normal use of this material should not result in any adverse effects, we strongly recommend that the precautions outlined in this SDS be followed to reduce skin contact and keep inhalation of mists to a minimum.

CAS# 7732-18-5:

Other Studies:, TDLo, Oral, Species: Rabbit, 3502. GM/KG, 2 W.

Results:

Behavioral: Convulsions or effect on seizure threshold.

Behavioral: Muscle weakness.

Related to Chronic Data - death.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, TDLo, Oral, Infant, 333.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Hypermotility, diarrhea.

Nutritional and Gross Metabolic:Changes in:Body temperature increase.

- Archives of Disease in Childhood., British Medical Journal, Box 560B, Kennebunkport, ME 04046, Vol/p/yr: 54,551, 1979

Acute toxicity, TDLo, Oral, Human, 42.86 GM/KG.

Results:

Behavioral: Tremor.

Behavioral: Muscle contraction or spasticity.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428 E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Rectal, Species: Woman, 180.0 GM/KG, 28 H.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Mydriasis (pupillary dilation).

Behavioral: Convulsions or effect on seizure threshold.

Gastrointestinal:Nausea or vomiting.

- Journal of the American Medical Association, American Medical Association, 535 N. Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LD50, Oral, Rat, 90.00 ML/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

- Food Research., For publisher information, see JFDSAZ, Champaign, IL, Vol/p/yr: 21,348, 1956

Acute toxicity, LD50, Intraperitoneal, Mouse, 190.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- National Technical Information Service, Vol/p/yr: AD628-313,



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Acute toxicity, LD50, Intravenous, Mouse, 25.00 GM/KG.

Results:

Nutritional and Gross Metabolic: Weight loss or decreased weight gain.

Related to Chronic Data - death.

- Microvascular Research., Academic Press, Inc., 1 E. First St., Duluth, MN 55802,
Vol/p/yr: 8,320, 1974

Acute toxicity, LDLO, Oral, Dog, 629.0 GM/KG.

Results:

Kidney, Ureter, Bladder: Changes in liver weight.

Kidney, Ureter, Bladder: Changes in bladder weight.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Cat, 320.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Oral, Species: Rabbit, 368.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Intravenous, Species: Rabbit, 13.00 GM/KG.

Results:

Blood: Other hemolysis with or without anemia.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

Acute toxicity, LDLO, Rectal, Species: Rabbit, 450.0 GM/KG.

Results:

Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Mydriasis (pupillary
dilation).

Behavioral: Muscle contraction or spasticity.

Gastrointestinal: Changes in structure or function of salivary glands.

- Journal of the American Medical Association, American Medical Association, 535 N.
Dearborn St., Chicago, IL 60610, Vol/p/yr: 104,1569, 1935

Acute toxicity, LDLO, Oral, Species: Guinea pig, 429.0 GM/KG.

Results:

Behavioral: Convulsions or effect on seizure threshold.

- Journal of Pharmacology and Experimental Therapeutics, Williams & Wilkins Co., 428
E. Preston St., Baltimore, MD 21202, Vol/p/yr: 29,135, 1926

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.
NA	Glycol Blend	n.a.	n.a.	n.a.	n.a.



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NA	Anti-oxident, Rust Inhibitor Additives	n.a.	n.a.	n.a.	n.a.
NA	Proprietary	n.a.	n.a.	n.a.	n.a.
NA	Organic Acids	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** This product is expected to have low aquatic toxicity (LD50 > 1000 mg/l) and a high rate of rate of biodegradation.

Section 13. Disposal Considerations

- 13.1 Waste Disposal Method:** Disposal should be made in accordance with federal, state and local regulations.

Section 14. Transport Information

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not-Restricted

DOT Hazard Class:

UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Not-Restricted

UN Number:

Hazard Class:

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not-Restricted

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not-Restricted

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)
7732-18-5	Water	No	No	No
NA	Glycol Blend	No	No	No
NA	Anti-oxident, Rust Inhibitor Additives	No	No	No
NA	Proprietary	No	No	No
NA	Organic Acids	No	No	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

7732-18-5	Water	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	Glycol Blend	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
NA	Anti-oxident, Rust Inhibitor Additives	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
NA	Proprietary	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA



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		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	Organic Acids	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
7732-18-5	Water	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
NA	Glycol Blend	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No
NA	Anti-oxident, Rust Inhibitor Additives	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No
NA	Proprietary	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No
NA	Organic Acids	Canadian DSL: No; Canadian NDSL: No; Taiwan TCSCA: No

European Community Hazard Symbol codes:

European Community Risk and Safety Phrases:

No data available.

Section 16. Other Information

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Additional Information About No data available.

This Product: