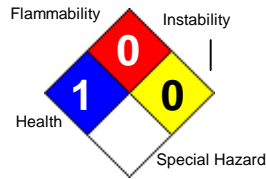




# MATERIAL SAFETY DATA SHEET

## Cooling System Anti-Rust & Water Pump Lubricant

CYCLO INDUSTRIES, INC.  
902 SOUTH US HIGHWAY 1  
JUPITER, FL 33477



Revision: 01/30/2012  
Supersedes Revision: 09/28/2010  
Date Created: 09/28/2010

### 1. Product and Company Identification

**Product Code:** C-51

**Product Name:** Cooling System Anti-Rust & Water Pump Lubricant

**Manufacturer Information**

**Company Name:** CYCLO INDUSTRIES, INC.

**Phone Number:** (800)843-7813

**Fax Number:** (561)745-3867

**Emergency Contact:** First Aid Emergency (800)222-1222

**Alternate Emergency Contact:** Chemtrec (703) 527-3887 (800)424-9300

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

**Web site address:** www.cyclo.com

**Email address:** ehs@cyclo.com

### 2. Hazards Identification

#### Emergency Overview

**DANGER:** Harmful if swallowed. Eye & skin irritant.

#### Potential Health Effects (Acute and Chronic)

Harmful if swallowed. Subcomponents of this product present at less than 5% are considered hazardous by OSHA Hazard Communication definition. May cause irritation to skin, eyes and respiratory tract with overexposure. May cause allergic skin reaction.

#### Signs and Symptoms Of Exposure

**Inhalation:** Can cause pulmonary edema if aspirated into lungs. May produce symptoms of central nervous system depression including headache, dizziness, nausea, euphoria, loss of equilibrium, drowsiness, visual disturbances, fatigue, unconsciousness and respiratory arrest.

**Skin Contact:** Irritating to the skin. Prolonged or repeated contact may cause dermatitis. May be absorbed through the skin and cause toxic effects similar to those resulting from inhalation exposure.

**Eye Contact:** May be irritating to the eyes.

**Ingestion:** Central nervous system depression symptoms similar to those by inhalation, followed by rapid breathing, increased heart rate, possible toxicity to the kidneys, decreased urine volume and severe metabolic acidosis.

#### Medical Conditions Generally Aggravated By Exposure

No data available.

### 3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Water	7732-18-5	65.0 -85.0 %
2. Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	< 1.0 %
3. Glycine, N,N'-1,2-ethanediy[bis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	< 1.0 %



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Hazardous Components (Chemical Name)	CAS #	Concentration
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	< 1.0 %
5. Citric acid	77-92-9	< 2.0 %
6. Sodium phosphate, Tribasic	7601-54-9	< 5.0 %
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	< 2.0 %
8. Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	< 1.0 %

## 4. First Aid Measures

### Emergency and First Aid Procedures

If swallowed, have patient drink several glasses of water then induce vomiting by having patient tickle back of throat with finger. Never give anything by mouth to an unconscious person. If vomiting does occur, have victim lean forward to reduce risk of aspiration. If inhaled, immediately remove victim to fresh air. If breathing has stopped, give artificial respiration, preferably mouth-to-mouth. In case of skin contact, immediately remove contaminated clothing; thoroughly wash contaminated skin with soap and water. Thoroughly clean contaminated clothing before reuse; discard contaminated leather goods. In case of eye contact, thoroughly flush eyes with large amounts of clean low-pressure water for a least 15 minutes. Call physician immediately if adverse reaction occurs.

## 5. Fire Fighting Measures

**Flash Pt:** NP Method Used: Pensky-Marten Closed Cup

**Explosive Limits:** LEL: N.A. UEL: N.A.

**Autoignition Pt:** No data available.

### Fire Fighting Instructions

No data available.

### Flammable Properties and Hazards

No data available.

### Hazardous Combustion Products

No data available.

### Suitable Extinguishing Media

No flash point. Water vapors extinguished flames upon testing at >170F.

### Unsuitable Extinguishing Media

No data available.

## 6. Accidental Release Measures

### Steps To Be Taken In Case Material Is Released Or Spilled

Contain spill with dike to prevent entry into sewers or waterways. For large spills, dike and pump into properly labeled containers for reclamation or disposal. For small spills, soak up with absorbent material and place in properly labeled containers for disposal. All recovered material should be packaged, labeled, transported and disposed of or reclaimed in conformance with applicable laws and regulations and in conformance with good engineering practices. Reclaim where possible.

## 7. Handling and Storage

### Precautions To Be Taken in Handling

Keep out of the reach of children.

### Precautions To Be Taken in Storing

No data available.



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**8. Exposure Controls/Personal Protection**

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Water	7732-18-5	No data.	No data.	No data.
2. Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	No data.	1 mg/m3	No data.
3. Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No data.	No data.	No data.
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	No data.	No data.	No data.
5. Citric acid	77-92-9	No data.	No data.	No data.
6. Sodium phosphate, Tribasic	7601-54-9	No data.	No data.	No data.
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	No data.	No data.	No data.
8. Poly(oxy-1,2-ethanediyl), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	No data.	No data.	No data.

**Respiratory Equipment (Specify Type)**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Where unknown concentrations are encountered or during an emergency, use NIOSH approved supplied air respirators.

**Eye Protection**

Safety glasses as a minimum protection.

**Protective Gloves**

Chemical resistant gloves such as rubber, neoprene or vinyl.

**Other Protective Clothing**

No data available.

**Engineering Controls (Ventilation etc.)**

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

**Work/Hygienic/Maintenance Practices**

No data available.

**9. Physical and Chemical Properties**

<b>Physical States:</b>	<input type="checkbox"/> Gas <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Solid
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	0.00 F (-17.8 C)
<b>Autoignition Pt:</b>	No data.
<b>Flash Pt:</b>	NP    Method Used: Pensky-Marten Closed Cup
<b>Specific Gravity (Water = 1):</b>	1.02
<b>Density:</b>	8.25 LB/GA
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.
<b>Vapor Density (vs. Air = 1):</b>	No data.
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	No data.
<b>Solubility in Water:</b>	Soluble
<b>Percent Volatile:</b>	0.0 % by weight.
<b>pH:</b>	8

**Appearance and Odor**

Colorless and odorless liquid.



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**10. Stability and Reactivity**

**Stability:** Unstable [ ] Stable [ X ]

**Conditions To Avoid - Instability**

No data available.

**Incompatibility - Materials To Avoid**

No data available.

**Hazardous Decomposition Or Byproducts**

No data available.

**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]

**Conditions To Avoid - Hazardous Reactions**

No data available.

**11. Toxicological Information**

Boron Sodium Oxide

LD50 (Oral) Rats 3200 mg/kg

LD50 (Skin) Rabbits >2000mg/kg

LC50 (Inhl) Rats >2.0 mg/l

Eye Irritation: Draize test in rabbits produced eye irritation effects. Fifty years of occupational exposure to Borox indicates no adverse effects on human eye. Not considered to be a human eye irritant in normal industrial use.

Sensitizer: Not a skin sensitizer.

Reproductive/Developmental Toxicity: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies with the chemically related boric acid in the rat, mouse and rabbit, at high doses demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed.

**Chronic Toxicological Effects**

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Water	7732-18-5	n.a.	n.a.	n.a.	n.a.
2. Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	n.a.	n.a.	n.a.	n.a.
3. Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	n.a.	n.a.	n.a.	n.a.
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	n.a.	n.a.	n.a.	n.a.
5. Citric acid	77-92-9	n.a.	n.a.	n.a.	n.a.
6. Sodium phosphate, Tribasic	7601-54-9	n.a.	n.a.	n.a.	n.a.
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	n.a.	n.a.	n.a.	n.a.
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	n.a.	n.a.	n.a.	n.a.

**12. Ecological Information**

Boron Sodium Oxide

Boron (R) is the element in Sodium Tetraborate Pentahydrate which is used by convention to report Borate product ecological effects. It occurs naturally in sea-water at an average concentration of 5 mg b/l and generally occurs in fresh water at concentrations up to 1 mg b/l. In dilute aqueous solutions the predominant Boron species present is undissociated Boric Acid. To convert Sodium Tetraborate Pentahydrate into the equivalent Boron (B)



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content, multiply by 0.1484.

Phytotoxicity: Boron is an essential micro-nutrient for healthy growth of plants; however, it can be harmful to Boron sensitive plants in high quantities. Care should be taken to minimize the amount of Boron Sodium Oxide into the environment.

### 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** Not-Restricted

#### MARINE TRANSPORT (IMDG/IMO)

**IMDG/IMO Shipping Name** Not-Restricted

#### Additional Transport Information

No data available.

### 15. Regulatory Information

#### US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Water	7732-18-5	No	No	No	No
2. Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	No	No	No	No
3. Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No	No	No	No
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	No	No	No	No
5. Citric acid	77-92-9	No	No	No	No
6. Sodium phosphate, Tribasic	7601-54-9	No	Yes 5000 LB	No	No
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	No	No	No	No
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	No	No	No	No

#### Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP, ODC	CWA NPDES	TSCA	CA PROP.65
1. Water	7732-18-5	No	No	Inventory	No
2. Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	No	No	No	No
3. Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No	No	No	No
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	No	No	Inventory	No
5. Citric acid	77-92-9	No	No	Inventory	No
6. Sodium phosphate, Tribasic	7601-54-9	No	No	Inventory	No
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	No	No	Inventory	No
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	No	No	Inventory, 8A PAIR	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Water	7732-18-5	No	No	No	No
2. Boron sodium oxide (B <sub>4</sub> Na <sub>2</sub> O <sub>7</sub> ), pentahydrate	12179-04-3	No	No	No	No



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Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
3. Glycine, N,N'-1,2-ethanediyldis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No	No	No	No
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	No	No	No	No
5. Citric acid	77-92-9	No	No	No	No
6. Sodium phosphate, Tribasic	7601-54-9	Title 8	Yes	Part 5	No
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	No	No	No	No
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Water	7732-18-5	No	No	No	No
2. Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	No	No	No	No
3. Glycine, N,N'-1,2-ethanediyldis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No	No	No	No
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	No	No	No	No
5. Citric acid	77-92-9	No	No	No	No
6. Sodium phosphate, Tribasic	7601-54-9	Yes - 1724	Yes	Yes - E	No
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	No	No	No	No
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	No	No	No	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Water	7732-18-5	No
2. Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	No
3. Glycine, N,N'-1,2-ethanediyldis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	No
5. Citric acid	77-92-9	No
6. Sodium phosphate, Tribasic	7601-54-9	No
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	No
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	No

### International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Water	7732-18-5	Yes	No	No
2. Boron sodium oxide (B4Na2O7), pentahydrate	12179-04-3	No	No	No
3. Glycine, N,N'-1,2-ethanediyldis[N-(carboxymethyl)-, sodium salt (1:4)	8013-51-2	No	No	No
4. 2(3H)-Benzothiazolethione, Sodium salt	2492-26-4	Yes	No	No
5. Citric acid	77-92-9	Yes	No	No
6. Sodium phosphate, Tribasic	7601-54-9	Yes	No	No
7. Oleic acid, compound with N-(2-aminoethyl)ethane-1,2-diamine	18016-43-8	Yes	No	No
8. Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydr	9016-45-9	Yes	No	No

### SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:



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- Sec.302:** EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. \* indicates 10000 LB TPQ if not volatile.
- Sec.304:** EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. \*\* indicates statutory RQ.
- Sec.313:** EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
- Sec.110:** EPA SARA 110 Superfund Site Priority Contaminant List

### TSCA (Toxic Substances Control Act) Lists:

- Inventory:** Chemical Listed in the TSCA Inventory.
- 5A(2):** Chemical Subject to Significant New Rules (SNURS)
- 6A:** Commercial Chemical Control Rules
- 8A:** Toxic Substances Subject To Information Rules on Production
- 8A CAIR:** Comprehensive Assessment Information Rules - (CAIR)
- 8A PAIR:** Preliminary Assessment Information Rules - (PAIR)
- 8C:** Records of Allegations of Significant Adverse Reactions
- 8D:** Health and Safety Data Reporting Rules
- 8D TERM:** Health and Safety Data Reporting Rule Terminations
- 12(b):** Notice of Export

### Other Important Lists:

- CWA NPDES:** EPA Clean Water Act NPDES Permit Chemical
- CAA HAP:** EPA Clean Air Act Hazardous Air Pollutant
- CAA ODC:** EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
- CA PROP 65:** California Proposition 65
- CA TAC:** California AB 1807 - Toxic Air Contaminants
- CA Title 8:** California Hazardous Substances List: Title 8, Sec. 339
- MI CMR:** Michigan Critical Materials Register
- MI Part 5:** Michigan DEQ WRP Part 5 Pollutants List
- NC TAP:** North Carolina Toxic Air Pollutants
- NJ EHS:** New Jersey Environmental Hazardous Substances List
- NY Part 597:** New York Part 597 List of Hazardous Substances
- PA HSL:** Pennsylvania Hazardous Substances List
- SC TAP:** South Carolina Toxic Air Pollutants
- WI Air:** Wisconsin Reportable Air Contaminants

### International Regulatory Lists:

- Canadian DSL:** Canada Domestic Substances List
- Canadian NDSL:** Canada Non-Domestic Substances List
- Taiwan TCSCA:** Taiwan Toxic Chemical Substances Control Act of 1986

## 16. Other Information

### 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,



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