



SAFETY DATA SHEET

Tire SOS

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Revision: 06/20/2016

Supersedes Revision: 08/24/2015

1. Product and Company Identification

Product Code: C501
Product Name: Tire SOS
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

2. Hazards Identification

Acute Toxicity: Oral, Category 3

Skin Corrosion/Irritation, Category 2

Flammable Aerosols, Category 3

Carcinogenicity, Category 1B

Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word:

Danger

GHS Hazard Phrases:

H229: Pressurized container: may burst if heated.
H301: Toxic if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H350: May cause cancer.
H400: Very toxic to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

GHS Precaution Phrases:

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P251: Pressurized container: Do not pierce or burn, even after use.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:

P370 +378: In case of fire: Use carbon dioxide, foam, dry chemical for extinction.
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+403: Protect from sunlight and store in well-ventilated place.



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

Potential Health Effects (Acute and Chronic):

No data available.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
7732-18-5	Water	65.0 -75.0 %
811-97-2	Ethane, 1,1,1,2-Tetrafluoro-	10.0 -30.0 %
5131-66-8	2-Propanol, 1-Butoxy-	3.0 -7.0 %
34398-01-1	Nonionic surfactant belco 01601 glass cleaner..	0.1 -1.0 %
7632-00-0	Sodium nitrite	0.1 -1.0 %
1336-21-6	Ammonium hydroxide	0.1 -1.0 %

4. First Aid Measures

Emergency and First Aid Procedures:

If swallowed, do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If in eye, rise cautiously with water for several minutes. Remove contact lenses if present and easy to do so. In case of skin contact, wash with soap and water for 15 minutes. Remove contaminated clothing and shoes and launder before reuse. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: No data.

Explosive Limits: LEL: No data.

UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Dry chemical, foam, CO2.

Fire Fighting Instructions: Shut off source to prevent spreading. Wear self-contained breathing apparatus when fighting fires. Shut off all sources of ignition. Keep exposed containers cool with water to prevent rupture.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: May decompose when it comes in contact with flames or heating elements, releasing irritating, toxic, corrosive and possibly flammable gases. Propellant is heavier than air and may travel long distances to heat sources.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Ventilate area. Especially low places where heavy vapors might collect. Remove open flames. SCBA is advised if a large spill or release occurs. Absorb on clay, vermiculite or other absorbent material and place in an approved DOT container for disposal in accordance with local, state and federal regulations.

7. Handling and Storage

Precautions To Be Taken in Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flame or other ignition sources. Pressurized container - Do not pierce or burn even after use. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Keep out of the reach of children.



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Precautions To Be Taken in Storing: Store locked up. Protect from sunlight and store in well-ventilated place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7732-18-5	Water	No data.	No data.	No data.
811-97-2	Ethane, 1,1,1,2-Tetrafluoro-	No data.	No data.	No data.
5131-66-8	2-Propanol, 1-Butoxy-	No data.	No data.	No data.
34398-01-1	Nonionic surfactant belco 01601 glass cleaner..	No data.	No data.	No data.
7632-00-0	Sodium nitrite	No data.	No data.	No data.
1336-21-6	Ammonium hydroxide	No data.	No data.	No data.

Respiratory Equipment (Specify Type): Supplied air or SCBA in case of release or fire.

Eye Protection: Chemical splash goggles or safety glasses with side shields.

Protective Gloves: Any non-permeable rubber gloves (latex or neoprene).

Other Protective Clothing: Non-permeable clothing to protect all skin from liquid contact.

Engineering Controls (Ventilation etc.): Local point exhaust sufficient.

9. Physical and Chemical Properties

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

Appearance and Odor: Opaque liquid wiht Ammonia odor.

pH: No data.

Melting Point: No data.

Boiling Point: < 0.00 F (-17.8 C)

Flash Pt: No data.

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

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.

Solubility in Water: No data.

Octanol/Water Partition Coefficient: No data.

Percent Volatile: 10.0 % by weight.

Autoignition Pt: No data.

Decomposition Temperature: No data.

Viscosity: No data.



10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - No data available.

Instability:

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 - No data available.

Hazardous Reactions:

11. Toxicological Information

Toxicological Information: 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:



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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,

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



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CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.
811-97-2	Ethane, 1,1,1,2-Tetrafluoro-	n.a.	n.a.	n.a.	n.a.
5131-66-8	2-Propanol, 1-Butoxy-	n.a.	n.a.	n.a.	n.a.
34398-01-1	Nonionic surfactant belco 01601 glass cleaner..	n.a.	n.a.	n.a.	n.a.
7632-00-0	Sodium nitrite	n.a.	n.a.	n.a.	n.a.
1336-21-6	Ammonium hydroxide	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: Consuer Commoity
DOT Hazard Class: ORM-D ORM-D
UN/NA Number:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Aerosols, Ltd Qty
UN Number: 1950
Hazard Class: N.A. **ADR Classification:** 2.2

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Aerosols, Ltd Qty
UN Number: 1950 **Packing Group:**
Hazard Class: N.A. **IMDG Classification:** 2.2
IMDG MFAG Number:
IMDG EMS Page: **Marine Pollutant:** No

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Forbidden by passenger aircraft

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
811-97-2	Ethane, 1,1,1,2-Tetrafluoro-	No	No	No
5131-66-8	2-Propanol, 1-Butoxy-	No	No	No
34398-01-1	Nonionic surfactant belco 01601 glass cleaner..	No	No	No
7632-00-0	Sodium nitrite	No	Yes 100 LB	Yes
1336-21-6	Ammonium hydroxide	No	Yes 1000 LB	No



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CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
7732-18-5	Water	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
811-97-2	Ethane, 1,1,1,2-Tetrafluoro-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; 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: Yes
5131-66-8	2-Propanol, 1-Butoxy-	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; 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
34398-01-1	Nonionic surfactant belco 01601 glass cleaner..	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
7632-00-0	Sodium nitrite	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 5A(2), 12(b); CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: Yes - 2258; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: No
1336-21-6	Ammonium hydroxide	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: Part 5; NC TAP: No; NJ EHS: No; NY Part 597: Yes; PA HSL: Yes - E; 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
811-97-2	Ethane, 1,1,1,2-Tetrafluoro-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
5131-66-8	2-Propanol, 1-Butoxy-	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
34398-01-1	Nonionic surfactant belco 01601 glass cleaner..	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
7632-00-0	Sodium nitrite	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
1336-21-6	Ammonium hydroxide	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes



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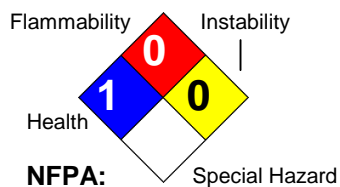
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16. Other Information

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Hazard Rating System:



Additional Information About No data available.

This Product: