

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:** C32
Product Name: Brake & Parts Clean
- 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]:
 Serious Eye Damage/Eye Irritation, Category 2A
 Carcinogenicity, Category 2
 Toxic To Reproduction, Category 1B
 Target Organ Systemic Toxicity (single exposure), Category 3
 Target Organ Systemic Toxicity (repeated exposure), Category 2
 Aquatic Toxicity (Chronic), Category 2
- 2.2 Label Elements:**
2.2.1 Labeling according to Regulation (EC) No 1272/2008 [CLP]:



Warning Danger

GHS Hazard Phrases:

H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H351: Suspected of causing cancer.
 H360: May damage fertility or the unborn child.
 H335: May cause respiratory irritation.
 H373: May cause damage to organs through prolonged or repeated exposure.
 H411: Toxic to aquatic life with long lasting effects.

GHS Precaution Phrases:

P264: Wash hands thoroughly after handling.
 P271: Use only outdoors or in a well-ventilated area.
 P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P273: Avoid release to the environment.

GHS Response Phrases:

P370+378: In case of fire, use extinguishing media appropriate for surrounding fire.
 P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P302+352: IF ON SKIN: Wash with plenty of soap and water.
 P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if



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present and easy to do. Continue rinsing.

P309+311: Call a POISON CENTER or doctor/physician if exposed or you feel unwell.

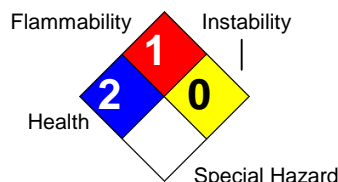
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

GHS Storage and Disposal Phrases:

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

P403+233: Store container tightly closed in well-ventilated place.

Hazard Rating System:



2.3 Adverse Human Health Effects and Symptoms:

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
127-18-4	Tetrachloroethylene	85.0 -100.0 %	204-825-9 602-028-00-4	Carcinogen 2: H351 Aquatic (C) 2: H411
106-94-5	1-Bromopropane	0.5 -1.0 %	203-445-0 602-019-00-5	Flam. Liq. 2: H225 Toxic Repro. 1B: H360 TOST (RE) 2: H373 Eye Damage 2A: H319 TOST (SE) 3: H335 H336 Skin Corr. 2: H315
124-38-9	Carbon dioxide	0.0 -15.0 %	204-696-9 NA	No data available.

Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** If swallowed, do not induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Never give anything by mouth to an unconscious person. Call a physician immediately. If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. In case of eye contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes. 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:** Use extinguishing media appropriate for surrounding fire. Use water spray to keep containers cool that are exposed to heat or flames.
- 5.2 Flammable Properties and Hazards:** No data available.
- Flash Pt:** No data.
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** No data.
- 5.3 Fire Fighting Instructions:** Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Avoid skin contact.



Section 6. Accidental Release Measures

- 6.3 Methods and Material For Containment and Cleaning Up:** Wear appropriate protective clothing and equipment to prevent skin contact. Avoid breathing vapor. When airborne exposure limits are exceeded use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Contain any liquid from leaking containers. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. Leaking containers should be removed to an isolated, well ventilated area and transferred to other suitable containers. Do not puncture or incinerate container. Contents under pressure. Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

Section 7. Handling and Storage

- 7.1 Precautions To Be Taken in Handling:** Avoid breathing vapors. If exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Use only in a well ventilated area. Caution: contents under pressure. Keep away from heat and open flame. Do not puncture or incinerate. This material or its vapors in contact with flames or hot glowing surfaces may form corrosive acid fumes. Keep away from children.
- 7.2 Precautions To Be Taken in Storing:** Do not store above 120 degrees F. Exposure to high temperatures may cause bursting. Do not store in the passenger compartment of an automobile.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Partial Chemical Name	Britain EH40	France VL	Europe
127-18-4	Tetrachloroethylene	TWA: 345 mg/m3 (50 ppm) STEL: 689 mg/m3 (100 ppm)	TWA: 335 mg/m3 (50 ppm)	No data.
106-94-5	1-Bromopropane	No data.	No data.	No data.
124-38-9	Carbon dioxide	TWA: 9150 mg/m3 (5000 ppm) STEL: 27400 mg/m3 (15000 ppm)	TWA: 9000 mg/m3 (5000 ppm)	TWA: 9000 mg/m3
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
127-18-4	Tetrachloroethylene	PEL: 100 ppm STEL: 300 ppm/(5min/3hr) CEIL: 200 ppm	TLV: 25 ppm STEL: 100 ppm	No data.
106-94-5	1-Bromopropane	No data.	No data.	No data.
124-38-9	Carbon dioxide	PEL: 5000 ppm	TLV: 5000 ppm STEL: 30,000 ppm	No data.

8.2 Exposure Controls:

- 8.2.1 Engineering Controls (Ventilation etc.):** Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Use in a well ventilated area.

8.2.2 Personal protection equipment:

Eye Protection: Chemical goggles; also wear a face shield if splashing hazard exists.

Protective Gloves: Avoid skin contact. Wear protective clothing and gloves.

Other Protective Clothing: Avoid skin contact. Wear protective clothing and gloves.

Respiratory Equipment (Specify Type): Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Do not breathe vapor or mist.



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 liquid. Faint sweet odor.
pH: NE
Melting Point: NE
Boiling Point: 250.00 F (121.1 C)
Flash Pt: No data.
Evaporation Rate: .15
Explosive Limits: LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg): 13mmHg@20C
Vapor Density (vs. Air = 1): 4.1
Specific Gravity (Water = 1): 1.62@25/25C
Solubility in Water: < 1%
Autoignition Pt: No data.
Viscosity: NE

9.2 Other Information

Percent Volatile: 8.8 %

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:** Do not expose to heat or store at temperatures above 120 degrees F. Avoid contact with open flame, electric arcs or other hot surfaces that could cause thermal decomposition.
- 10.5 Incompatibility - Materials To Avoid:** Contact with oxidizing agents, sulfuric acid, nitric acid, chlorine compounds, strong acids, chloroform, alkalis, potassium t-butoxide, strong bases.
- 10.6 Hazardous Decomposition Or Byproducts:** Carbon monoxide. The thermal decomposition products of this material are categorized as very toxic by the University of Pittsburgh toxicity of combustion products test method.



Section 11. Toxicological Information

11.1 Information on Toxicological Effects:

Perchloroethylene (127-18-4)
Route: Inhalation
Species: Rats
Dose: LC50 34200 mg/m3/8H

n-Propyl bromide (106-94-5)
Route: Inhalation
Species: Rats
Dose: 253 gm/m3/30M

Carbon Dioxide (124-38-9)
Route: NA
Species: NA
Dose: Not known

Carcinogenicity

Perchloroethylene (127-18-4)
IARC: Group 2A (Probable carcinogenic to humans)
NTP: :Listed - Suspect Carcinogen
OSHA: Possible Select Carcinogens

n-Propyl bromide (106-94-5)
IARC: Not Listed
NTP: Assigned to Laboratory for Toxicology/Carcinogenesis Study
OSHA: Not Listed

Carbon Dioxide (124-38-9)
IARC: Not Listed
NTP: Not Listed
OSHA: Not Listed

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
127-18-4	Tetrachloroethylene	Possible	2A	A3	n.a.
106-94-5	1-Bromopropane	n.a.	n.a.	n.a.	n.a.
124-38-9	Carbon dioxide	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information



Section 13. Disposal Considerations

- 13.1 Waste Disposal Method:** Residues and spilled material are hazardous waste due to ignitability. 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: Consumer Commodity
DOT Hazard Class: ORM-D ORM-D
UN/NA Number:

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:
UN Number: 1950
Hazard Class: N.A. **ADR Classification:** 2

14.2 MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Aerosols (Tetrachloroethylene), 2.2 (6.1)
UN Number: 50 **Packing Group:**
Hazard Class: N.A. **IMDG Classification:** 2.2
Marine Pollutant: Yes

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:
UN Number: 1950
Hazard Class: N.A.

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)
127-18-4	Tetrachloroethylene	No	Yes 100 LB	Yes
106-94-5	1-Bromopropane	No	No	No
124-38-9	Carbon dioxide	No	No	No

CAS # Hazardous Components (Chemical Name)

Other US EPA or State Lists

127-18-4	Tetrachloroethylene	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Inventory, 8A CAIR, 12(b); CA PROP.65: Yes; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: CMR, Part 5; NC TAP: Yes; NJ EHS: Yes - 1810; NY Part 597: Yes; PA HSL: Yes - B; SC TAP: Yes; WI Air: Yes
106-94-5	1-Bromopropane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Inventory; CA PROP.65: Yes; CA TAC, Title 8: No; MA Oil/HazMat: No; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 4198; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
124-38-9	Carbon dioxide	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 - 0343; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: Yes

CAS # Hazardous Components (Chemical Name)

International Regulatory Lists

127-18-4	Tetrachloroethylene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes - 063-01
106-94-5	1-Bromopropane	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes



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124-38-9 Carbon dioxide

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

Section 16. Other Information

Revision Date: 04/19/2013

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

Company Policy or

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