



MATERIAL SAFETY DATA SHEET

Brake & Parts Clean

CYCLO INDUSTRIES, INC.
401 MAPLEWOOD DRIVE
SUITE 18
JUPITER, FL 33458

HEALTH		2
FLAMMABILITY		2
PHYSICAL HAZ.		2
PPE		



Revision: 02/19/2010

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1. Product and Company Identification

Product Code: C-32
Product Name: Brake & Parts Clean
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: Shipping Emergency (Chemtrec) (800)424-9300
Information: Emergency (Outside the U.S.) (312)906-6194
Web site address: www.cyclo.com
Email address: ehs@cyclo.com

2. Hazards Identification

Emergency Overview

Contents under pressure. Danger: Suspected cancer hazard. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through the skin. May cause severe eye irritation.

Health Hazards (Acute and Chronic)

No data available.

Signs and Symptoms Of Exposure

No data available.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Tetrachloroethylene	127-18-4	85.0 -100.0 %
2. 1-Bromopropane	106-94-5	5.0 -15.0 %
3. Carbon dioxide	124-38-9	0.0 -15.0 %

4. First Aid Measures

Emergency and First Aid Procedures

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.

5. Fire Fighting Measures

Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.
Special Fire Fighting Procedures

Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Avoid skin contact.

Unusual Fire and Explosion Hazards

No data available.



Hazardous Combustion Products

Hydrogen chloride, phosgene, chlorine.

Suitable Extinguishing Media

Use extinguishing media appropriate for surrounding fire. Use water spray to keep containers cool that are exposed to heat or flames.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

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.

7. Handling and Storage

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.

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.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA TWA	ACGIH TWA	Other Limits
1. Tetrachloroethylene	127-18-4	PEL: 100 ppm STEL: 300 ppm/(5min/3hr) CEIL: 200 ppm	TLV: 25 ppm STEL: 100 ppm	No data.
2. 1-Bromopropane	106-94-5	No data.	No data.	No data.
3. Carbon dioxide	124-38-9	PEL: 5000 ppm	TLV: 5000 ppm STEL: 30,000 ppm	No data.

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.

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.

Ventilation

Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Use in a well ventilated area.



9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	NE		
Boiling Point:	250.00 F (121.1 C)		
Autoignition Pt:	No data.		
Flash Pt:	No data.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Specific Gravity (Water = 1):	1.62@25/25C		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	13mmHg@20C		
Vapor Density (vs. Air = 1):	4.1		
Evaporation Rate (vs Butyl Acetate=1):	.15		
Solubility in Water:	< 1%		
Percent Volatile:	8.8 %		
Viscosity:	NE		
Heat Value:	No data.		
Particle Size:	No data.		
Corrosion Rate:	No data.		
pH:	NE		

Appearance and Odor

Clear, colorless liquid. Faint sweet odor.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

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.

Incompatibility - Materials To Avoid

Contact with oxidizing agents, sulfuric acid, nitric acid, chlorine compounds, strong acids, chloroform, alkalis, potassium t-butoxide, strong bases.

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.

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

Conditions To Avoid - Hazardous Reactions

No data available.

11. Toxicological Information

No data available.

Carcinogenicity/Other Information

No data available.

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

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No



12. Ecological Information

No data available.

13. Disposal Considerations

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.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name: ORM-D
DOT Hazard Label: NONFLAMMABLE GAS, CORROSIVE
UN/NA Number: UN1950
DOT Hazard Class: 9

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Proper Shipping Name: Aerosols (Limited Quantity)
UN Number: 50
IMDG Classification: 2.2
Marine Pollutant: Yes

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. Tetrachloroethylene	127-18-4	No	Yes 100 LB	Yes	Yes
2. 1-Bromopropane	106-94-5	No	No	No	No
3. Carbon dioxide	124-38-9	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. Tetrachloroethylene	127-18-4	HAP	Yes	Inventory, 8A CAIR, 12(b)	Yes
2. 1-Bromopropane	106-94-5	No	No	Inventory	Yes
3. Carbon dioxide	124-38-9	No	No	Inventory	No

Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Tetrachloroethylene	127-18-4	TAC, Title 8	Yes	CMR, Part 5	Yes
2. 1-Bromopropane	106-94-5	No	No	No	No
3. Carbon dioxide	124-38-9	Title 8	Yes	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Tetrachloroethylene	127-18-4	1810	Yes	Yes - B	Yes
2. 1-Bromopropane	106-94-5	4198	No	Yes - 1	No
3. Carbon dioxide	124-38-9	0343	No	Yes - 1	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Tetrachloroethylene	127-18-4	Yes
2. 1-Bromopropane	106-94-5	No
3. Carbon dioxide	124-38-9	Yes

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Tetrachloroethylene	127-18-4	No	No	No
2. 1-Bromopropane	106-94-5	No	No	No
3. Carbon dioxide	124-38-9	No	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

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