SAFETY DATA SHEET

Brake & Parts Clean Non-Chlorinated, 5 Gallon Pail

Revision: 12/15/2016
Supersedes Revision: 08/22/2014

1. Product and Company Identification

Product Code: C119C

Product Name: Brake & Parts Clean Non-Chlorinated, 5 Gallon Pail

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

Flammable Liquids, Category 2
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Toxic To Reproduction, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Specific Target Organ Toxicity (repeated exposure), Category 2
Aspiration Toxicity, Category 1

GHS Signal Word: **Danger**

GHS Hazard Phrases:
H225: Highly flammable liquid and vapor.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.
H335: May cause respiratory irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H304: May be fatal if swallowed and enters airways.

GHS Precaution Phrases:
P233: Keep container tightly closed.
P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P243: Take precautionary measures against static discharge.
P242: Use only non-sparking tools.
P264: Wash hands thoroughly after handling.
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P281: Use personal protective equipment as required.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.

GHS Response Phrases:
P370+378: In case of fire, use carbon dioxide or foam to extinguish.
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: P501: Dispose of contents/container in accordance with local/regional/national/international regulation.
P403+233: Store container tightly closed in well-ventilated place.

Potential Health Effects (Acute and Chronic): No data available.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
67-64-1	Acetone	50.0 -60.0 %
142-82-5	Heptane	20.0 -30.0 %
108-88-3	Toluene	15.0 -25.0 %

4. First Aid Measures

Emergency and First Aid Procedures: If swallowed, do not induce vomiting. Never give anything to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. IIf in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of skin contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and launder before reuse. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flash Pt: -4.00 F (-20.0 C) Method Used: Closed Cup

Explosive Limits: LEL: 1.05 UEL: 6.7

Autoignition Pt: 399.00 F (203.9 C)

Suitable Extinguishing Media: Carbon dioxide, foam. Use water spray to keep containers cool that are exposed to heat or flame.

Fire Fighting Instructions: Wear approved positive-pressure self-contained breathing apparatus and protective clothing.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Only trained and qualified personnel should handle any spilled or leaked product. Keep away from heat, sparks and flames. Ventilate spill area. Soak up material with absorbent and place in chemical waste container. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Use non-sparking tools and equipment. Avoid breathing vapors.

7. Handling and Storage

Precautions To Be Taken in Handling: Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces - No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray. Keep out of the reach of children.

Precautions To Be Taken in Storing: Store container tightly closed in well-ventilated place.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
67-64-1	Acetone	PEL: 1000 ppm	TLV: 500 ppm STEL: 750 ppm	No data.
142-82-5	Heptane	PEL: 500 ppm	TLV: 400 ppm	No data.
108-88-3	Toluene	PEL: 200 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm	TLV: 50 ppm	No data.

Respiratory Equipment (Specify Type): Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

Eye Protection: Wear safety glasses or goggles to protect against exposure.

Protective Gloves: Avoid skin contact. Wear protective gloves.

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

Engineering Controls (Ventilation etc.): Showers. Eyewash stations. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

9. Physical and Chemical Properties

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

Appearance and Odor: Colorless to light yellow liquid with hydrocarbon odor.

pH: No data.

Melting Point: No data.

Boiling Point: No data.

Flash Pt: -4.00 F (-20.0 C) Method Used: Closed Cup

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 1.05 UEL: 6.7

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): 3.5

Specific Gravity (Water = 1): .78

Solubility in Water: Slight

Octanol/Water Partition Coefficient: No data.

Percent Volatile: 44.9 % by weight.

Autoignition Pt: 399.00 F (203.9 C)

Decomposition Temperature: No data.

Viscosity: No data.

10. Stability and Reactivity

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability: Avoid any source of ignition, temperatures over 120 degrees F, strong oxidizing agents.

Incompatibility - Materials To Avoid: Contact with oxidizing agents.

Hazardous Decomposition or Byproducts: Carbon monoxide. Carbon dioxide.

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

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

Toxicological Information:

CAS# 142-82-5:
Other Studies:, TDLo, Oral, Rat, 60.00 GM/KG, 3 W.
Results:
Kidney, Ureter, Bladder: Changes in liver weight.
- National Technical Information Service, Vol/p/yr: OTS0571116,

Other Studies:, TDLo, Oral, Rat, 260.0 GM/KG, 13 W.
Results:
Kidney, Ureter, Bladder: Changes in bladder weight.
Endocrine:Hypoglycemia.
Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
- National Technical Information Service, Vol/p/yr: OTS0571116,

Other Studies:, TCLo, Inhalation, Rat, 4000. PPM, 6 D.
Results:
Brain and Coverings: Recordings from specific areas of CNS.
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Ear: Changes in cochlear structure or function.
Nutritional and Gross Metabolic:Weight loss or decreased weight gain.
- Pharmacology and Toxicology, Munksgaard International Pub., POB 2148, Copenhagen K Denmark, Vol/p/yr: 76,41, 1995

Other Studies:, TDLo, Intraperitoneal, Rat, 9625. MG/KG, 7 D.
Results:
Liver: Other changes.
Blood:Changes in serum composition (e.g.
Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Multiple enzyme effects.
- Toxicology Letters., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam 1000 AE Netherlands, Vol/p/yr: 14,169, 1982

Other Studies:, TDLo, Intraperitoneal, Rat, 8840. MG/KG, 45 D.
Results:
Liver: Other changes.
Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Phosphatases.
Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Hepatic microsomal mixed oxidase (dealkylation, hydroxylation, etc.)
- JAT, Journal of Applied Toxicology., John Wiley & Sons Ltd., Baffins Lane, Chichester, W.Sussex PO19 1UD UK, Vol/p/yr: 8,81, 1988

Acute toxicity, TCLo, Inhalation, Human, 1000. PPM, 6 M.
Results:
Behavioral: Hallucinations, distorted perceptions.
- "U.S. Bureau of Mines Report of Investigation No. 2979," Patty, F.A., and W.P. Yant, 1929 Volume, Vol/p/yr: 2979,-, 1929

Acute toxicity, LC50, Inhalation, Rat, 103.0 GM/M3, 4 H.
Results:
Behavioral: Change in motor activity (specific assay).
Behavioral: Alteration of classical conditioning.
- Gigiena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 32(10),23, 1988

Acute toxicity, LCLO, Inhalation, Mouse, 59.00 GM/M3, 41 M.
Results:
Behavioral: Convulsions or effect on seizure threshold.
- Biochemische Zeitschrift., For publisher information, see EJBCAI, Berlin Germany, Vol/p/yr: 115,235, 1921

Acute toxicity, LD50, Intravenous, Mouse, 222.0 MG/KG.
Results:
Brain and Coverings: Changes in circulation (hemorrhage,thrombosis, etc.
Lungs, Thorax, or Respiration:Dyspnea.
Gastrointestinal:Nausea or vomiting.
- Journal of Pharmaceutical Sciences., American Pharmaceutical Assoc., 2215 Constitution Ave., NW, Washington, DC 20037, Vol/p/yr: 67,566, 1978

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
67-64-1	Acetone	n.a.	n.a.	A4	n.a.
142-82-5	Heptane	n.a.	n.a.	n.a.	n.a.
108-88-3	Toluene	n.a.	3	A4	n.a.

12. Ecological Information

General Ecological Information:

CAS# 142-82-5:
Effective concentration to 50% of test organisms., Water Flea (Daphnia magna), 82500. UG/L, 96 H, Intoxication,, Water temperature: 28.00 C (82.4 F) C.
Results:
No observed effect.
- Acute Toxicity of Petroleum Products, Crude Oil andOil Refinery Effluent on Plankton, Benthic Invertebrates and Fish, Das, P.K.M.K., and S.K. Konar, 1988

LC50, Water Flea (Daphnia magna), 50.00 MG/L, 24 H, Intoxication,, Water temperature: 20.00 C (68.0 F) - 22.00 C (71.6 F) C, pH: 7.70, Hardness: 16.00 dH.
Results:
No observed effect.
- Results of the Damaging Effect of Water Pollutants on Daphnia magna (Befunde der Schadwirkung Wassergefahrdender Stoffe Gegen Daphnia magna), Bringmann, G., and R. Kuhn, 1977

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 4924000. UG/L, 48 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.
Results:
Age Effects.
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 4924000. UG/L, 24 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.
Results:
Age Effects.
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

Not reported., Western Mosquitofish (Gambusia affinis), adult(s), 5600000. UG/L, 96 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.
Results:
No observed effect.
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 4924000. UG/L, 96 H, Mortality, Water temperature: 20.00 C (68.0 F) - 27.00 C (80.6 F) C, pH: 8.90.
Results:
No observed effect.
- Toxicity to Gambusia affinis of Certain Pure Chemicals in Turbid Waters, Wallen, I.E., W.C. Greer, and R. Lasater, 1957

Not reported., Coho Salmon,Silver Salmon (Oncorhynchus kisutch), 100000. UG/L, 96 H, Mortality, Water temperature: 8.00 C (46.4 F) C, pH: 8.10.
Results:
Age Effects.
- Effects of Some Components of Crude Oil on Young Coho Salmon, Morrow, J.E., R.L. Gritz, and M.P. Kirton, 1975

LC50, Mozambique Tilapia (Oreochromis mossambicus), 375000. UG/L, 96 H, Mortality, Water temperature: 27.80 C (82.0 F) C.
Results:
No observed effect.
- Acute Toxicity of n-Heptane and n-Hexane on Worm and Fish, Ghatak, D.B., M.M. Hossain, and S.K. Konar, 1988

LC50, Midge Family (Chironomidae), larva(e), 838000. UG/L, 96 H, Intoxication,, Water temperature: 28.00 C (82.4 F) C, pH: 7.00, Hardness: 260.00 MG/L.
Results:
No observed effect.
- Acute Toxicity of Petroleum Products, Crude Oil andOil Refinery Effluent on Plankton, Benthic Invertebrates and Fish, Das, P.K.M.K., and S.K. Konar, 1988

Effective concentration to 50% of test organisms., Algae (Algae), 1500. UG/L, 8 H, Physiology.
Results:
No observed effect.
- Gulf Underwater Flare Experiment (GUFEX): Effects of Hydrocarbons on Phytoplankton, Brooks, J.M., G.A. Fryxell, D.F. Reid, and W.M. Sackett, 1977

Not reported., Pacific Oyster (Crassostrea gigas), egg(s), 3400000. UG/L, 48 H, Mortality, Water temperature: 20.00 C (68.0 F) - 21.50 C (70.7 F) C.
Results:
No observed effect.
- The Effect of Alaskan Crude Oil and Selected Hydrocarbon Compounds on Embryonic Development of the Pacfic Oyster, Crassostrea gigas, Legore, R.S., 1974

LC50, Oligochaete (Branchiura sowerbyi), 2500000. UG/L, 96 H, Mortality, Water temperature: 27.80 C (82.0 F) C.
Results:
No observed effect.
- Acute Toxicity of n-Heptane and n-Hexane on Worm and Fish, Ghatak, D.B., M.M. Hossain, and S.K. Konar, 1988

Effective concentration to 50% of test organisms., Snail (Viviparus bengalensis), 472000. UG/L, 96 H, Intoxication,, Water temperature: 28.00 C (82.4 F) C.
Results:
No observed effect.
- Acute Toxicity of Petroleum Products, Crude Oil andOil Refinery Effluent on Plankton, Benthic Invertebrates and Fish, Das, P.K.M.K., and S.K. Konar, 1988

Lethal concentration to 0% of test organisms., Carp (Leuciscus idus ssp. melanotus), 220.0 MG/L, 48 H, Mortality.
Results:
No observed effect.
- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

LC50, Carp (Leuciscus idus ssp. melanotus), 270.0 MG/L, 48 H, Mortality.
Results:
No observed effect.

- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

Lethal concentration to 100% of test organisms., Carp (Leuciscus idus ssp. melanotus), 350.0 MG/L, 48 H, Mortality.
Results:
No observed effect.
- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

Lethal concentration to 0% of test organisms., Carp (Leuciscus idus ssp. melanotus), 1370. MG/L, 48 H, Mortality.
Results:
No observed effect.
- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

LC50, Carp (Leuciscus idus ssp. melanotus), 2940. MG/L, 48 H, Mortality.
Results:
No observed effect.
- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

Lethal concentration to 100% of test organisms., Carp (Leuciscus idus ssp. melanotus), 3420. MG/L, 48 H, Mortality.
Results:
No observed effect.
- Results of the Investigation of 200 Chemical Compounds for Acute Fish Toxicity with the Golden Orfe Test (Ergebnisse der Untersuchung von 200 Chemischen Verbindungen auf Akute Fischtoxizitat mit dem Goldorfentest), Juhnke, I., and D. Luedemann, 1978

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: Flammable Liquid, n.o.s. (Acetone, Heptane, Toluene)
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1993 **Packing Group:** II

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Flammable Liquid, n.o.s. (Acetone, Heptane, Toluene)
UN Number: 1993 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID **ADR Classification:** 3

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name:	Flammable Liquid, n.o.s. (Acetone, Heptane, Toluene)		
UN Number:	1993	**Packing Group:**	II
Hazard Class:	3 - FLAMMABLE LIQUID	**IMDG Classification:**	3
		IMDG MFAG Number:	
IMDG EMS Page:		**Marine Pollutant:**	No

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:	Flammable Liquid, n.o.s. (Acetone, Heptane, Toluene)		
UN Number:	1993	**Packing Group:**	II
Hazard Class:	3 - FLAMMABLE LIQUID	**IATA Classification:**	3

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)
67-64-1	Acetone	No	Yes 5000 LB	No
142-82-5	Heptane	No	No	No
108-88-3	Toluene	No	Yes 1000 LB	Yes

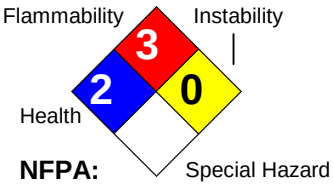
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
67-64-1	Acetone	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NC TAP: No; NJ EHS: No; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: No; WI Air: Yes
142-82-5	Heptane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 4 Test, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: No; NY Part 597: No; PA HSL: Yes - 1; SC TAP: No; WI Air: No
108-88-3	Toluene	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory, 8A CAIR; 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 - 1866; NY Part 597: Yes; PA HSL: Yes - E; SC TAP: Yes; WI Air: Yes

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
67-64-1	Acetone	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
142-82-5	Heptane	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes
108-88-3	Toluene	Canadian DSL: Yes; Canadian NDSL: No; Taiwan TCSCA: Yes

16. Other Information

Revision Date: 12/15/2016

Hazard Rating System:



Additional Information About This Product: Not for sale in CA, UT, DE, NH.

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