



MATERIAL SAFETY DATA SHEET

Battery Cleaner & Acid Leak Detector

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

HEALTH		1
FLAMMABILITY		2
REACTIVITY		0
PPE		

Revision: 01/27/2012
Supercedes Revision: 05/19/2010
Date Created: 05/19/2010

1. Product and Company Identification

Product Code: C-120

Product Name: Battery Cleaner & Acid Leak Detector

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

WARNING: Eye & skin irritant. Contents under pressure.

Potential Health Effects (Acute and Chronic)

Inhalation Health Risks and Symptoms of Exposure: Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.

Skin and Eye Contact Health Risks and Symptoms of Exposure: Contact may dry the skin, prolonged contact may cause irritation. Liquid or vapor can irritate eyes.

Skin Absorption Health Risks and Symptoms of Exposure: Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.

Ingestion Health Risks and Symptoms of Exposure: Not a likely route of exposure. If swallowed, do not induce vomiting. Seek immediate medical advice and/or attention.

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

No data available.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Butane	106-97-8	4.0 %
2. Propane	74-98-6	2.0 %

4. First Aid Measures

Emergency and First Aid Procedures

If swallowed, do not induce vomiting. If inhaled, remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. In case of skin contact, wipe off with towel. Wash with soap and water. In case of eye contact, was immediately with large volumes of fresh water for at least 15 minutes. Call physician immediately if adverse reaction occurs.



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5. Fire Fighting Measures

Flammability Classification: NFPA Level 1 Aerosol

Flash Pt: -156.00 F (-104.4 C) Method Used: Estimate

Explosive Limits: LEL: 1.9 UEL: 9.5

Autoignition Pt: No data available.

Fire Fighting Instructions

Water spray may be ineffective. Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles preferred. Wear goggles and self-contained breathing apparatus.

Flammable Properties and Hazards

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will not support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Hazardous Combustion Products

No data available.

Suitable Extinguishing Media

Foam, alcohol foam, CO₂, dry chemical, water fog.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Avoid breathing vapors. Ventilate area. Remove all sources of ignition. Clean up area with absorbent material and place in closed containers for disposal.

7. Handling and Storage

Precautions To Be Taken in Handling

Do not puncture or incinerate cans. Do not stick pin, nail or any other sharp object into opening on top of can. Do not spray in eyes. Do not take internally. Keep out of the reach of children.

Precautions To Be Taken in Storing

Store and use in cool, dry, well-ventilated areas. Do not store above 120 degrees F.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TLV	Other Limits
1. Butane	106-97-8	No data.	(800 ppm)	No data.
2. Propane	74-98-6	1000 ppm	(2500 ppm)	No data.

Respiratory Equipment (Specify Type)

None under normal use. Avoid breathing vapors. In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

Eye Protection

None under normal use; however, use of safety glasses with splash guards or full face shield is recommended.

Protective Gloves

None under normal use. Solvent resistant required for prolonged or repeated contact.

Other Protective Clothing

None under normal use; however, use of solvent resistant aprons or other clothing is recommended.

Engineering Controls (Ventilation etc.)

Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/TLV of most hazardous ingredient below acceptable limit and LEL below stated limit.



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Work/Hygienic/Maintenance Practices

No data available.

9. Physical and Chemical Properties

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

Melting Point: No data.

Boiling Point: -44.00 F (-42.2 C) - -212.00 F (-135.6 C)

Autoignition Pt: No data.

Flash Pt: -156.00 F (-104.4 C) Method Used: Estimate

Explosive Limits: LEL: 1.9 UEL: 9.5

Specific Gravity (Water = 1): .98

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

Vapor Density (vs. Air = 1): NE

Evaporation Rate (vs Butyl Acetate=1): NE

Solubility in Water: Complete

Percent Volatile: 6.0 % by weight.

Appearance and Odor
Aerosol product.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability
Application to hot surfaces. Storage above 120 degrees F. Exposure to open flame.

Incompatibility - Materials To Avoid
Oxidizing agents.

Hazardous Decomposition Or Byproducts
May produce fumes when heated to decomposition. Fumes may contain carbon monoxide.

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

Conditions To Avoid - Hazardous Reactions
No data available.

11. Toxicological Information

No data available.

Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Butane	106-97-8	n.a.	n.a.	n.a.	n.a.
2. Propane	74-98-6	n.a.	n.a.	n.a.	n.a.

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method

Disposal should be made in accordance with federal, state and local regulations.



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14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Consumer Commodity
DOT Hazard Class: ORM-D
DOT Hazard Label: ORM-D

AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Shipping Name Aerosols, flammable, 2.1, Limited Quantity
UN Number: 1950
Hazard Class: N.A.
IATA Classification: 2.1

MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Shipping Name Aerosols, Ltd. Qty.
UN Number: 1950
Hazard Class: N.A.
IMDG Classification: 2.1

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. Butane	106-97-8	No	No	No	No
2. Propane	74-98-6	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. Butane	106-97-8	No	No	Inventory	No
2. Propane	74-98-6	No	No	Inventory	No
Hazardous Components (Chemical Name)	CAS #	CA TAC, Title 8	MA Oil/HazMat	MI CMR, Part 5	NC TAP
1. Butane	106-97-8	Title 8	Yes	No	No
2. Propane	74-98-6	No	Yes	No	No
Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Butane	106-97-8	Yes - 0273	No	Yes - 1	No
2. Propane	74-98-6	Yes - 1594	No	Yes - 1	No
Hazardous Components (Chemical Name)	CAS #	WI Air			
1. Butane	106-97-8	No			
2. Propane	74-98-6	No			

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Butane	106-97-8	Yes	No	No
2. Propane	74-98-6	Yes	No	No

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

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.



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- 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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