



MATERIAL SAFETY DATA SHEET

Glass Clean

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

HEALTH		1
FLAMMABILITY		3
REACTIVITY		0
PPE		

Revision: 04/26/2010
Supersedes Revision: 12/07/2009
Date Created: 12/07/2009

1. Product and Company Identification

Product Code: C-31, C-331
Product Name: Glass 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

Inhalation: irritation of respiratory tract, headache, dizziness, fatigue.
 Ingestion: irritation of gastro-intestinal tract, nausea, diarrhea, vomiting.
 Eye: irritation or burning sensation.
 Skin: irritation or reddening.

Health Hazards (Acute and Chronic)

No data available.

Signs and Symptoms Of Exposure

No data available.

Medical Conditions Generally Aggravated By Exposure

None known when used as directed.

3. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration
1. Ethanol, 2-Butoxy-	111-76-2	< 2.0 %
2. Isopropyl alcohol	67-63-0	< 4.0 %
3. Isobutane (2-Methylpropane)	75-28-5	<10.0 %
4. Propane	74-98-6	< 5.0 %

4. First Aid Measures

Emergency and First Aid Procedures

If swallowed, induce vomiting only on the advice of a physician. If inhaled, remove victim to fresh air. In case of eye contact, flush with water for 15 minutes. Call physician immediately if adverse reaction occurs.

5. Fire Fighting Measures

Flammability Classification: LEL & UEL for pur propellant
Flash Pt: N.E.
Explosive Limits: LEL: 2.1 UEL: 13.0
Special Fire Fighting Procedures

Use NIOSH self-contained breathing apparatus in confined areas. Use water spray to cool-fire exposed containers.



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Unusual Fire and Explosion Hazards

Flammable vapors may travel along floor to be ignited by distant ignition sources. Containers exposed to fire may develop sufficient internal pressure to rupture with explosive force.

Suitable Extinguishing Media

CO2 or dry chemical for small fires. Foam for large fires. Addition of water fog will aid in reducing burning rate.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Eliminate all ignition sources (vapor flammable). Ventilate area. At area where vapors may collect, wear SCBA breathing apparatus. Small spills should be flushed with large amounts of water. Large spills should be absorbed on non-flammable absorbent material for disposal. A release of 500 pounds or more may trigger the reporting requirements of CERLCA Section 103.

7. Handling and Storage

Precautions To Be Taken in Handling

Do not puncture or attempt to open pressurized container under any circumstances. Keep out of the reach of children.

Precautions To Be Taken in Storing

Product should be kept in cool, dry environment. Keep product away from ignition sources.

8. Exposure Controls/Personal Protection

Hazardous Components (Chemical Name)	CAS #	OSHA PEL	ACGIH TWA	Other Limits
1. Ethanol, 2-Butoxy-	111-76-2	PEL: 50 ppm	TLV: 20 ppm	No data.
2. Isopropyl alcohol	67-63-0	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.
3. Isobutane (2-Methylpropane)	75-28-5	No data.	No data.	No data.
4. Propane	74-98-6	PEL: 1000 ppm	TLV: (2500 ppm)	No data.

Respiratory Equipment (Specify Type)

Not necessary when product is used as directed. Avoid prolonged or repeated breathing of vapors.

Eye Protection

Not necessary when product is used as directed. Always avoid contact with eyes.

Protective Gloves

Not necessary when product is used as directed.

Ventilation

No data available.

9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	No data.		
Boiling Point:	NE		
Autoignition Pt:	No data.		
Flash Pt:	N.E.		
Explosive Limits:	LEL: 2.1	UEL: 13.0	
Specific Gravity (Water = 1):	1.0		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	25-35psig		



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Vapor Density (vs. Air = 1):	> 1
Evaporation Rate (vs Butyl Acetate=1):	No data.
Solubility in Water:	Complete
Percent Volatile:	No data.
Heat Value:	No data.
Particle Size:	No data.
Corrosion Rate:	No data.
pH:	No data.

Appearance and Odor

Clear liquid - fragranced.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]**Conditions To Avoid - Instability**

Keep away from heat or ignition sources.

Incompatibility - Materials To Avoid

Keep concentrate away from strong oxidizing agents.

Hazardous Decomposition Or Byproducts

Combustion of liquid may form oxides of carbon and nitrogen.

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. Ethanol, 2-Butoxy-	111-76-2	n.a.	n.a.	A3	n.a.
2. Isopropyl alcohol	67-63-0	n.a.	n.a.	A4	n.a.
3. Isobutane (2-Methylpropane)	75-28-5	n.a.	n.a.	n.a.	n.a.
4. Propane	74-98-6	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

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:	CLASS 9
UN/NA Number:	UN1950
DOT Hazard Class:	9

MARINE TRANSPORT (IMDG/IMO)**IMDG/IMO Proper Shipping Name** Aerosol, Limited Quantity



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UN Number: 1950

IMDG Classification: 2.1

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. Ethanol, 2-Butoxy-	111-76-2	No	No	Yes-Cat. N230	No
2. Isopropyl alcohol	67-63-0	No	No	Yes	No
3. Isobutane (2-Methylpropane)	75-28-5	No	No	No	No
4. 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. Ethanol, 2-Butoxy-	111-76-2	No	No	Inventory	No
2. Isopropyl alcohol	67-63-0	No	No	Inventory	No
3. Isobutane (2-Methylpropane)	75-28-5	No	No	Inventory	No
4. 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. Ethanol, 2-Butoxy-	111-76-2	TAC, Title 8	Yes	No	No
2. Isopropyl alcohol	67-63-0	TAC, Title 8	No	No	No
3. Isobutane (2-Methylpropane)	75-28-5	No	Yes	No	No
4. Propane	74-98-6	No	Yes	No	No

Hazardous Components (Chemical Name)	CAS #	NJ EHS	NY Part 597	PA HSL	SC TAP
1. Ethanol, 2-Butoxy-	111-76-2	0275	No	Yes - 1	No
2. Isopropyl alcohol	67-63-0	1076	No	Yes - E	No
3. Isobutane (2-Methylpropane)	75-28-5	1040	No	Yes - 1	No
4. Propane	74-98-6	1594	No	Yes - 1	No

Hazardous Components (Chemical Name)	CAS #	WI Air
1. Ethanol, 2-Butoxy-	111-76-2	Yes
2. Isopropyl alcohol	67-63-0	No
3. Isobutane (2-Methylpropane)	75-28-5	No
4. Propane	74-98-6	No

International Regulatory Lists

Hazardous Components (Chemical Name)	CAS #	Canadian DSL	Canadian NDSL	Taiwan TCSCA
1. Ethanol, 2-Butoxy-	111-76-2	No	No	No
2. Isopropyl alcohol	67-63-0	No	No	No
3. Isobutane (2-Methylpropane)	75-28-5	No	No	No
4. Propane	74-98-6	No	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.

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



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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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