



CYCLO[®] INDUSTRIES, LLC

MATERIAL SAFETY DATA SHEET

This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this product. Please read the information on these sheets and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL, STATE and COMMUNITY RIGHT TO KNOW regulations. Also, make this information available to any employee who requests it.

If Cyclo Industries, LLC considers the formula of this product to be a trade secret, the exact chemical names of the ingredient(s) and the percentages in which they are combined will not appear in the body of this sheet. The exact composition is available upon request to physicians, industrial hygienists and other health professionals.

SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

Product Name: Cyclo[®] Spray Adhesive, Stock No. C-900

Product Use: Adhesive suitable for use in automotive, RV, industrial and marine applications. Excellent for most materials including decorative trim, metals, particle board, wood, vinyl and some plastics.

Manufactured by: Cyclo Industries, LLC
10190 Riverside Drive, Palm Beach Gardens, Florida 33410-4881
Telephone: (561) 775-9600

First Aid Emergency: (800) 752-7869 or (312) 906-6194

Shipping Emergency: (800) 424-9300 or (703) 527-3887 (CHEMTREC)

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

CAS Reg. No.	Material	Percentage	Exposure Limits
110-54-3	Hexane (Mixed Isomers) including n-Hexane	25 - 35	Hexane Isomers 50 ppm OSHA PEL 500 ppm ACGIH TLV & STEL n-Hexane 50 ppm OSHA PEL 50 ppm ACGIH TLV
106-97-8	Butane	25 - 35	800 ppm OSHA PEL 800 ppm ACGIH TLV
67-64-1	Acetone	5 - 15	750 ppm OSHA PEL 750 ppm ACGIH TLV
74-98-6	Propane	11	1000 ppm OSHA PEL Asphyxiant ACGIH TLV

SECTION 3 – HAZARDS IDENTIFICATION

Effects of Overexposure:

- Ingestion: Not a likely route of exposure.
- Inhalation: Respiratory irritation, dizziness, headache, nausea, fatigue, drowsiness, impaired coordination, eye watering.
- Skin Contact: Contact may dry the skin. Prolonged contact may cause irritation. Can be absorbed. Solvent action can dry and defat the skin causing skin to crack, leading to dermatitis.
- Eye Contact: Liquid or vapor can irritate.

Health Hazards (Acute and Chronic):

- ACUTE: Eye, skin and respiratory system irritant. Narcotic in high concentrations. Severe overexposure may cause damage to the blood.
- CHRONIC: Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system and other internal organ damage.

Carcinogenicity: NTP Carcinogen = No; IARC Monographs = No; OSHA Regulated = No

Medical Conditions Generally Aggravated by Exposure: Liver and kidney disease, anemia, coronary disease.

SECTION 4 – FIRST AID MEASURES

First Aid Procedures:

- Ingestion: If swallowed, seek immediate medical advice and/or attention.
- Skin Contact: Remove contaminated clothing and wash before reuse. Wipe off with towel. Wash with soap and water. Get medical attention if irritation persists.
- Inhalation: Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention.
- Eye Contact: Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: -156°F (-104°C) **Method Used:** Estimated

Flammable Limits in Air by Volume:

Lower Explosion Level (LEL) = 1.2 Upper Explosion Level (UEL) = 13

Extinguishing Media: Foam, alcohol foam, CO₂, dry chemical, water fog

Special Fire Fighting Procedures: 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.

SECTION 5 – FIRE FIGHTING MEASURES continued

Unusual Fire and Explosion Hazards: Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Vapor accumulation can flash or explode if ignited. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

HMIS Code: Health = 2 Flammability = 4 Reactivity = 0

SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

SECTION 7 – HANDLING AND STORAGE

Handling Procedures: Use in cool, dry, well-ventilated areas. Do not puncture or incinerate (burn) 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. See product label for additional information. **KEEP OUT OF THE REACH OF CHILDREN.**

Storage Procedures: Store in cool, dry, well-ventilated areas. Do not store above 120°F (50°C).

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: None under normal use. Avoid breathing vapors. Use with adequate ventilation equal to out of doors. 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.

Ventilation: 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.

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

Eye Protection: Safety glasses with splash guards or full face shield is recommended.

Other Protective Equipment: None under normal use, however, solvent resistant apron or other clothing is recommended.

Work/Hygienic Practices: Eye washes and safety showers in the workplace are recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: -44°F (-42°C) **Specific Gravity (H₂O=1):** 0.67

Vapor Pressure (mm Hg @ Temp): **Vapor Density:** Unknown

Hexane	137	68	Product Density: 5.6 lb/gal (US)
Acetone	181	68	
Butane	1640	68	
Propane	6350	68	

Percent Solids By Weight (%): 17

Solubility in Water: Slight to moderate **Percent Volatile By Weight (%):** 83.0

Evaporation Rate (Butyl Acetate = 1): Faster

Appearance and Odor: Aerosol product. Opaque Liquid; Mint like when wet

Volatile Organic Compound (VOC) (as packaged minus water): 72%

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions to Avoid: Application to hot surfaces. Storage above 120°F. Exposure to open flame, sparks, welding and static electricity.

Incompatibility (materials to avoid): Strong oxidizing agents, acids and reducing agents.

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

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Long-term toxicological studies have not been conducted for this product. See Section 3 of this MSDS for acute symptoms of overexposure and carcinogenicity information.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic/Terrestrial Toxicity Environmental Fate No data is available at this time.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

SECTION 14 – TRANSPORT INFORMATION

U.S. DOT

Shipping Description:	Aerosols, Consumer Commodity ORM-D
ID Number:	Not applicable
Hazard Class:	Not applicable
Packing Group:	Not applicable
Label:	Not required
Placards:	Not required

IMDG

Shipping Description:	Aerosols, Limited Quantity
ID Number:	UN 1950
Hazard Class:	Class 2
Packing Group:	Not applicable
Label:	Not required
Markings:	Not required
Placards:	Not required

SECTION 15 – REGULATORY INFORMATION
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TSCA Inventory: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory of chemical substances maintained by the U.S. Environmental Protection Agency.

SARA Extremely Hazardous Substances None

SARA Section 313 This product contains the following toxic chemical subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (SARA 313 – Toxic Chemical Release Reporting)

<u>Chemical Name</u>	<u>CAS#</u>	<u>Weight %</u>
Hexane	110-543	25 - 35

CERCLA/Superfund (RQ):

<u>Chemical Name</u>	<u>CAS#</u>	<u>Reportable Quantity</u>
Hexane	110-543	5,000
Acetone	67-64-1	5,000

California Proposition 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

Document Date: 8/11/03

Supersedes: 7/10/02

SECTION 16 – OTHER INFORMATION continued

Revisions: Added Sections 11, 12 and 15

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