



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
 Atlanta, GA 30301
 1-877-I-BUY-ZEP (428-9937)
 www.zep.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name CHOKE & CARBURETOR CLEANER
Product Use Aerosol Choke and Carburetor Cleaner
Product Code 0286
Date of issue 12/14/04 **Supersedes** 05/12/97

Emergency For MSDS Information:

Telephone Numbers Acuity Specialty Products Group, Inc.
 Compliance Services 1-877-I-BUY-ZEP

QUAIL RIDGE COUNTRY CLUB
 354 GREAT ROAD
 ACTON MA 01720

For Medical Emergency:

INFOTRAC
 (877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency:

CHEMTREC
 (800) 424-9300 - All Calls Recorded
 In the District of Columbia (202) 483-7616

Printing date: 11/08/05

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
METHYLENE CHLORIDE; dichloromethane; methylene dichloride	75-09-2	50 - 60	OSHA PEL (United States). TWA: 25 ppm 8 hour(s). OSHA (United States). STEL: 125 ppm 15 minute(s).
XYLENE; dimethyl benzene; xylol	1330-20-7	30 - 40	OSHA (United States). TWA: 100 ppm ACGIH (United States). STEL: 150 ppm
METHANOL; methyl alcohol; wood alcohol; columbia spirits	67-56-1	5 - 15	OSHA/ACGIH (United States). TWA: 200 ppm 8 hour(s). OSHA /ACGIH (United States). STEL: 250 ppm 15 minute(s).
ETHYL BENZENE	100-41-4	5 - 15	OSHA PEL (United States). TWA: 100 ppm 8 hour(s).
MORPHOLINE; tetrahydro-1,4-oxazine; diethylene-imide oxide	110-91-8	<5	OSHA PEL (United States). TWA: 20 ppm 8 hour(s). OSHA / ACGIH (United States). STEL: 30 ppm 15 minute(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Absorbed through skin. Inhalation. Ingestion.

Skin Hazardous in case of skin contact (irritant, permeator). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Harmful if absorbed through the skin.

Eyes Hazardous in case of eye contact (irritant). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract.

Inhalation Hazardous in case of inhalation. Can cause central nervous system depression. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Prolonged repeated exposure may cause chemical pneumonitis.

Ingestion Hazardous in case of ingestion. May be fatal or cause blindness if swallowed.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

HMIS

Health	3
	3
Reactivity	0
Personal Protection	n, p

Carcinogenic Effects

Methylene Chloride: Classified + (Proven) by OSHA, Classified 2B (Possible for human) by IARC, and Group 2 (Reasonably Anticipated To Be Human Carcinogen) by NTP

Chronic Effects

The substance may be toxic to blood, kidneys, lungs, liver, heart, spleen, brain, peripheral nervous system, eyes, adrenal, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.
Skin Contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	Toxic if swallowed. INDUCE VOMITING by sticking finger in throat. If vomiting occurs, keep head lower than hips to help prevent aspiration. Aspiration hazard if swallowed- can enter lungs and cause damage. Seek immediate medical attention.

Section 5. Fire Fighting Measures

Flash Point	Not available.	Flammable Limits	Not available.
Flammability	FLAMMABLE. (CSMA)		
Fire Hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.		
Fire-Fighting Procedures	Dry chemical, carbon dioxide, foam. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		

**Section 6. Accidental Release Measures**

Spill Clean up	Large spills are unlikely due to packaging.
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Section 7. Handling and Storage

Handling	Keep away from heat, sparks and flame. Use only with adequate ventilation. Do not breathe gas/fumes/vapor/spray. Do not get in eyes, on skin, or on clothing. Do not ingest.
Storage	Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Do not store above 49°C (120°F). Do not puncture or incinerate. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Splash goggles.	
Body	Chemical resistant gloves. (Viton) Recommended: Chemical resistant apron.	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Wear appropriate respirator when ventilation is inadequate.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color	Clear. Colorless.
pH	Not applicable.	Odor	Solvent-like.
Boiling Point	Not determined.	Vapor Pressure	21.7 kPa (163 mmHg) (at 20°C)
Specific Gravity	Not determined.	Vapor Density	>1 (Air = 1)
Solubility	Insoluble in cold water, hot water.	Evaporation Rate	>1
		VOC (Consumer)	45.0% 3.94 (lbs/gal) 472 (g/l)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Avoid contact with strong oxidizers, excessive heat, sparks or open flame.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride (HCl), Chlorine and Phosgene Gas.

Section 11. Toxicological Information

Toxicity to Animals	Methylene Chloride:
	ORAL (LD50): Acute: 1500 mg/kg [Rat].
	Xylene:
	ORAL (LD50): Acute: 3500 mg/kg [Rat].
	VAPOR (LC50): Acute: 6700 ppm 4 hour(s) [Rat].
	Methanol:
	ORAL (LD50): Acute: 5628 mg/kg [Rat].
	Morpholine:
	ORAL (LD50): Acute: 1050 mg/kg [Rat].
	DERMAL (LD50): Acute: 500 mg/kg [Rabbit].

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Code: D001
Classification: - (Hazardous waste.)
Origin: - (RCRA waste.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Consumer Commodity

DOT Classification ORM-D

UN number Not available.

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:

Methylene Chloride

Xylene

Methanol

Ethyl Benzene

Clean Water Act (CWA) 311: Xylene; Ethyl Benzene

Clean air act (CAA) 112 regulated toxic substances: Methylene Chloride; Xylene; Methanol; Ethyl Benzene

All Components of this product are listed or exempt from listing on TSCA inventory.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.