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1-877-I-BUY-ZEP (428-9937)
Superior Solutions www.zep.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP CARB X (Aerosol)
Product use Aerosol Carburetor Cleaner
Product code 0215
Date of issue 10/06/04 **Supersedes**

Emergency Telephone Numbers For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded

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

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Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
ACETONE; dimethyl ketone	67-64-1	40 - 50	ACGIH TLV (United States). TWA: 500 ppm 8 hour(s). OSHA PEL (United States). TWA: 1000 ppm 8 hour(s). ACGIH (United States). STEL: 750 ppm 15 minute(s).
TOLUENE; phenyl methane; methyl benzene; toluol	108-88-3	15 - 25	ACGIH TLV (United States). Skin TWA: 50 ppm 8 hour(s). OSHA PEL Z2 (United States). TWA: 200 ppm 8 hour(s).
XYLENE; dimethyl benzene; xylol	1330-20-7	10 - 20	OSHA (United States). TWA: 100 ppm ACGIH (United States). STEL: 150 ppm
METHANOL; methyl alcohol; wood alcohol; columbia spirits	67-56-1	10 - 20	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	OSHA PEL (United States). TWA: 100 ppm 8 hour(s).

Section 3. Hazards Identification

Acute Effects

Routes of Entry Inhalation. Ingestion. Absorbed through skin.

Skin Hazardous by the following route of exposure: of skin contact (irritant, permeator). Toxic in contact with skin. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Hazardous by the following route of exposure: of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately.

Inhalation Hazardous by the following route of exposure: of inhalation. Toxic by inhalation. Can cause central nervous system (CNS) depression. May cause respiratory tract irritation. Inhalation causes headaches, dizziness, drowsiness and nausea and may lead to unconsciousness.

Ingestion Hazardous by the following route of exposure: of ingestion. Ingestion may cause nausea, weakness and central nervous system effects. 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	
Hazard	2
Health	4
Reactivity	0
Personal Protection	n, p

Carcinogenic Effects

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects

Repeated or prolonged exposure to the substance can produce target organs damage. The substance may be toxic to blood, kidneys, lungs, the nervous system, liver, heart, brain, and pancreas. Repeated or prolonged exposure may cause specific developmental abnormalities.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation occurs.
Skin Contact	Wash affected area with soap or mild detergent 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. Drink one or two glasses of water and induce vomiting by gently touching the back of the throat with finger. Never give anything by mouth to an unconscious person. Keep head lower than hips to help prevent aspiration. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not determined.	Flammable Limits	Not determined.
Flammability	Extremely flammable. (CSMA FLAME EXTENSION TEST)		
Fire hazard	FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.		
Fire-fighting procedures	Dry chemical, carbon dioxide, foam, water fog. Wear special protective clothing and positive pressure, self-contained breathing apparatus. Cool closed containers exposed to fire with water.		

**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	Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use with adequate ventilation. Wash contaminated clothing before reusing. Wash thoroughly after handling.
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. Store below 120°F (49°C). 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	Synthetic apron. Gloves. (Viton)	
Respiratory	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapor cartridge.	

Section 9. Physical and Chemical Properties

Physical State	Aerosol. (Liquid fill)	Color	Colorless.
pH	Not applicable.	Odor	Solvent. (Strong.)
Boiling Point	55.5°C (132°F)	Vapor Pressure	Not available.
Specific Gravity	0.814 (Water = 1)	Vapor Density	Not available.
Solubility	Insoluble in the following materials: cold water, hot water.	Evaporation Rate	Not available.
		VOC (Consumer)	45.0%, 3.05 lbs/gal

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. and other organic materials..

Section 11. Toxicological Information

Toxicity to Animals	Acetone: [^] [25,45,50,70 ORAL (LD50):□Acute: 3000 mg/kg [Mouse]. DERMAL (LD50):□Acute: 20000 mg/kg [Rabbit]. Toluene: [^] [25,45,50,70 ORAL (LD50):□Acute: 5000 mg/kg [Rat]. VAPOR (LC50):□Acute: 5320 ppm 8 hour(s) [Mouse]. Xylene: [^] [25,45,50,70 ORAL (LD50):□Acute: 3500 mg/kg [Rat]. VAPOR (LC50):□Acute: 6700 ppm 4 hour(s) [Rat]. Methanol: [^] [25,45,50,70 ORAL (LD50):□Acute: 5628 mg/kg [Rat].
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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.)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Consumer commodity

DOT Classification ORM-D

UN number Not regulated.

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.

TDG Classification ORM-D

Section 15. Regulatory Information

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

Toluene
 Xylene
 Methanol
 Ethyl Benzene

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

Clean Air Act (CAA) 112 regulated toxic substances: Toluene; Xylene; Methanol; Ethyl Benzene

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

State Regulations

WARNING: This product contains a chemical or chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Toluene; Benzene; Formaldehyde; Acetaldehyde

WHMIS (Canada)

Class A: Compressed gas.

Class B-5: Flammable aerosol.

Class D-1A: Material causing immediate and serious toxic effects (Very toxic).

Class D-2B: Material causing other toxic effects (Toxic).

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.