

Material Safety Data Sheet

Freeman Band Saw Tire Cement

Date of Preparation: May 4, 2007

Revision:

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Freeman Band Saw Tire Cement

Chemical Family: Solvent

CAS Number: N/A

Other Designations: N/A

General Use: N/A

Manufacturer: Freeman Manufacturing and Supply, 1101 Moore Road, Avon, OH 44011, Phone(440) 934-1902, FAX (440) 934-7200 (8-5), Emergency phone number 1-800-424-9300.

HMIS

H 2

F 3

R 0

PPE[†]

[†]Sec. 8

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Highly flammable. Harmful by inhalation. Irritating to eyes.

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Toluene	108-88-3	25-35 %
Methyl Ethyl Ketone	78-93-3	30-40 %

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		Vapor
	TWA	STEL	TWA	STEL	TWA	STEL	Pressure
Toluene	200 pp	500 ppm (10 min peak)	None estab.	50 ppm Skin: BEI	100 ppm	150 ppm	22 mmHg @ 68°F
Methyl Ethyl Ketone	200 ppm	None estab.	200 ppm	300 ppm	200 ppm	300 ppm	71 mmHg @ 68°F

Section 3 - Physical and Chemical Properties

Physical State: Liquid

Appearance and Odor: Black liquid, characteristic odor

Vapor Pressure: 79 mm Hg @ 68 °F

Specific Gravity (H₂O=1, at 4 °C): 0.902

Melting Point: Undetermined

Boiling Point: 174° F (79° C)

Water Solubility: Not soluble or difficult to mix.

Solvent Content:

Organic Solvents: 64.1%

Solids Content: 35.9%

VOC: 5.0 LBS/GAL or 600 GM/L

Section 4 - Fire-Fighting Measures

Flash Point: 25 °F (-4 °C)

Flash Point Method: TOC

Ignition Temperature: 514.0°C (957 °F)

Auto Igniting: Product is not self-igniting

LEL: 1.2 Vol %

UEL: 11.5 Vol %

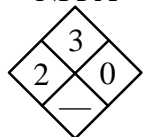
Flammability Classification: Flammable

Suitable Extinguishing Agents: CO₂, sand, extinguishing powder. Do not use water.

For Safety Reasons Unsuitable Extinguishing Agents: Water and water with full jet.

Unusual Fire or Explosion Hazards: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

NFPA



Protective Equipment: Protective clothing and respiratory protective device.

Section 5 - Stability and Reactivity

Stability: Stable at ambient temperatures and pressures.

Conditions to Avoid: Keep away from extreme heat, sparks, open flames.

Dangerous Reactions: Strong oxidizers, acids, and bases

Hazardous Decomposition Products: Oxides of carbon, nitrogen and hydrocarbons, hydrogen chloride (thermal degradation products).

Polymerization: Hazardous polymerization will not occur.

Section 6 - Health Hazard Information

Potential Health Effects

Primary Irritant Effect:

On the Skin: Irritant to skin and mucous membranes.

On the Eye: Irritating effect.

Sensitization: Sensitizing effect through inhalation is possible with prolonged exposure.

Emergency and First Aid Procedures

Inhalation: Remove to fresh air and seek medical attention.

Eye Contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

Skin Contact: Clean with rubbing alcohol, if available, followed by washing affected area with soap and water. Remove contaminated clothing. Wash clothing before reuse.

Ingestion: Seek medical treatment.

General Information: Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Section 7 - Spill, Leak, and Disposal Procedures

Person-related Safety Precautions: Wear protective equipment. Keep unprotected persons away.

Measures for Environmental Protection: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

Measures for Cleaning/Collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste in accordance with federal, state and local regulations. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

Disposal Considerations: Product must not be disposed of together with household garbage. Do not allow product to reach sewage system. Uncleaned packagings must be disposed according to official regulations.

Ecological Information

General Notes: Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

Toxicological Information

Acute Toxicity: LD/LC50 values that are relevant for classification:

108-88-3 Toluene:	Oral	LD50	5000 mg/kg (rat)
	Dermal	LD50	12124 mg/kg (rabbit)
	Inhalative	LC50/4 h	5320 mg/l (mouse).

Additional Toxicological Information: The product shows the following dangers according to internally approved calculation methods for preparations: Harmful, Irritant.

Revision:

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Regulations:

SARA

Section 355 (Extremely Hazardous Substances): None of the ingredients is listed.

Section 313 (Specific Toxic Chemical Listings): Methyl Ethyl Ketone 78-93-3
Toluene 108-88-3

TSCA (Toxic Substances Control Act): All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.

Chemicals known to cause reproductive toxicity: Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.
108-88-3 Toluene

Carcinogenicity Categories

EPA (Environmental Protection Agency):	78-93-3	Methyl Ethyl Ketone	D
	108-88-3	Toluene	D
IARC (International Agency for Research on Cancer):	108-88-3	Toluene	3

NTP (National Toxicology Program): None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH): 108-88-3 Toluene A4

MAK (German Maximum Workplace Concentration): None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration): None of the ingredients is listed.

Product Related Hazard Information: The product has been classified and marked in accordance with directives on hazardous materials.

Hazard-determining Components of Labeling: Toluene

Risk Phrases:

- Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.
- Highly flammable.
- Harmful by inhalation.
- Irritating to eyes.

Water Hazard Class: Water Hazard Class 2 (Self-assessment): Hazardous for water.

State Regulations:

Toluene (CAS # 108-88-3) is listed on the New Jersey, Pennsylvania and Massachusetts Right to Know Lists. Under California's Proposition 65 it is listed as a developmental hazard.

Methyl Ethyl Ketone (CAS # 78-93-3) is listed on the New Jersey, Pennsylvania and Massachusetts Right to Know Lists.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Local exhaust ventilation is recommended to minimize any vapor exposure. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2).

Breathing Equipment: In the absence of adequate ventilation, NIOSH-certified respiratory protection for organic vapor should be used as necessary. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of Hands: Protective gloves.
Eye Protection: Safety glasses with side shields.
Body Protection: Protective work clothing.
General Protective and Hygienic Measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Section 9 - Special Precautions and Comments

Handling: Ensure good ventilation/exhaustion at the workplace. Keep ignition sources away – Do not smoke. Protect against electrostatic charges.
Storage: Store in a cool location away from direct heat. Store as flammable liquid. Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Adhesives	Packaging Authorizations	Quantity Limitations
Shipping Symbols:	a) Exceptions: 173.150	a) Passenger, Aircraft, or Railcar:
Hazard Class: 3	b) Non-bulk Packaging:	b) Cargo Aircraft Only:
ID No.: UN1133	c) Bulk Packaging:	
Packing Group: III		Vessel Stowage Requirements
Label: Consumer Commodity	Marine Pollutant: No	a) Vessel Stowage:
ORM-D (pt)		b) Other:

Prepared By:

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