



MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FAST DRY SELF VULCANIZING CEMENT		MSDS NUMBER: 0223	
PRODUCT NUMBER: 16-450, 16-451, 16-452, 98-854, 98-855, 97-291 & 98-823		DATE: 13 January 2009	
TRADE NAME: VULCANIZING CEMENT GENERAL USE: Adhesive CHEMICAL FAMILY: organics PRODUCT DESCRIPTION: Milky white, flammable liquid with a hydrocarbon odor.			
MANUFACTURER Patch Rubber Company		DATE PREPARED: 13 January 2009	
ADDRESS (NUMBER, STREET, P.O. BOX) PO Box H		SUPERSEDES: 2 June 2006	
(CITY, STATE AND ZIP CODE) Roanoke Rapids, NC 27870	COUNTRY USA	CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS	
TELEPHONE NUMBER (General Inquiries) (252) 536-2574		1-800-255-3924 North America (Toll Free)	813-248-0585 International and Local Calls

SECTION 2 - HAZARDOUS INGREDIENTS

Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)
Heptane	70-80	142-82-5	205-563-8	F, Xn, N	R11, 38, 50/53, 66, 67
Acetone	15-20	67-64-1	200-662-2	F, Xi	R11, 36, 66, 67
(Dibutylamine)bis(dibutylthiocarbamate-S,S')zinc	1-2	35884-05-0	252-774-6	None	Not Classified

NOTES: This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 91/155/EEC. Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European (GHS) directive 91/155/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directive 67/548/EEC.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Flammable liquid, potentially hazardous vapours. Can cause serious or fatal complications if swallowed. Can cause eye and skin irritation upon contact. Inhalation of vapours can cause anesthetic effect leading to death in poorly ventilated areas. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

POTENTIAL HEALTH EFFECTS

INHALATION:
High concentrations are irritating to the respiratory tract. May cause headache, dizziness, nausea, vomiting and malaise. Intentional concentration and inhalation of heptane vapours may lead to nervous system damage.

SKIN:
Brief contact may cause slight irritation; prolonged contact may cause moderate irritation or dermatitis.

EYES:
High vapour concentration or contact may cause irritation and discomfort.

INGESTION:
May result in vomiting; aspiration of vomitus into the lungs must be avoided; DO NOT induce vomiting. Minute amounts aspirated into the lungs can produce severe lung injury, chemical pneumonitis, pulmonary edema or death.

CARCINOGENICITY:

NTP? NO	IARC MONOGRAPHS? NO	OSHA REGULATED? NO
CALIFORNIA, Prop.65? NO		ESIS NOTATION? NO

SECTION 4 - FIRST AID MEASURES

INHALATION:
Remove affected person to fresh air; provide oxygen if breathing is difficult; if affected person is not breathing, administer CPR and seek emergency medical attention.

EYES:
Check for and remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention. Do not use over-the-counter products except under physician directions.

SKIN:
Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention. The use of emollients may ease mild irritation from defatting of skin.

INGESTION:
DO NOT INDUCE VOMITING!!! If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Seek immediate emergency medical attention; transport container with victim to assist with treatment.

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SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Product is flammable, with a flash point of - 20° C (-4° F). Ignited product will float on top of water .Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide. Vapours may cause a flash fire or ignite explosively. vapours may travel a considerable distance to a source of ignition and flash back.

EXTINGUISHING MEDIA:

Carbon dioxide, water fog, dry chemical, chemical foam. Avoid the use of streaming water, as this may spread fire.

FIRE FIGHTING PROCEDURES:

Firefighters must wear full facepiece self - contained breathing apparatus in positive pressure mode. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Closed containers can explode due to buildup of pressure when exposed to extreme heat. Do not use direct stream of water on pool fires as product may reignite on water surface; use of water fog to cool containers is acceptable.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, soot, fumes or vapours, oxides of carbon.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

CAUTION - HIGHLY FLAMMABLE LIQUID - PRODUCT IS LIGHTER THAN WATER AND WILL FLOAT ON TOP OF WATER. Evacuate and ventilate area, remove all sources of sparks, ignition and open flames, and turn off electrical circuits in area. Wear personal protective equipment, including organic vapour respirator or self-contained beathing apparatus, as needed. Confine product and absorb into approved absorbent; place material into approved flammable waste containers for disposal; do not wash to sewer or waterway. Dikes may be needed for large spills. Treat used absorbent as flammable. For spills in excess of allowable limits (RQ) within the United States, notify the National Response Center at (800) 424 - 8802 .

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures. CAUTION - FLAMMABLE - keep away from all sources of ignition. "Empty" containers may contain residue which may form explosive vapours. Do not weld or cut near empty container that has not been professionally reconditioned. Use nonsparking tools when opening and closing containers. Maintain well ventilated work areas to minimize exposure when handling this material.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS	NIOSH				ACGIH		OSHA	
	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³	TLV/TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
Heptane	85	350	NR	NR	400	1640	500	2050
Acetone	NR	3.5	NR	NR	NR	3.5	NR	NR
(Dibutylamine)bis(dibutyldi-thiocarbamato-S,S')zinc	NE	NE	NE	NE	NE	NE	NE	NE

NE - Not Established, NR - Not Reported

Heptane - 500 ppm TWA in UK, 400 ppm TWA in Ireland.

Carbon Black - 3.5 mg/m³ TWA, 7 mg/m³ STEL in UK and Ireland,

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Not required for normal work situations where adequate ventilation is provided. Use NIOSH or European EN-149 approved self contained, positive pressure respirators for emergencies and in situations where air may be displaced by vapours. Follow OSHA Std. 29CFR 1910.134 or corresponding EU Directives .

PROTECTIVE GLOVES:

Neoprene, butyl or nitrile rubber gloves with cuffs should be worn, especially if prolonged exposure is expected.

EYE PROTECTION:

Chemical safety goggles, preferably with side shields should be worn as a matter of proper industrial practice. Refer to 29 CFR 1910.133 within the US or European Standard EN166 within the EU.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Provide a safety eyewash nearby, in case of splash injury. Where extensive dermal exposure may be expected, either a chemical suit or a chemical apron will be needed. Neoprene is a good compromise material between chemical resistance, physical durability, and cost.

WORK / HYGIENIC PRACTICES:

Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general. Do not smoke, eat or drink while using the product. Wash hands with soap and water before smoking, eating, drinking or using toilet facilities. Launder contaminated clothing before re-use.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Milky white liquid, characteristic hydrocarbon odor	VAPOUR PRESSURE 186 mm Hg @ 20°C
pH NA	SPECIFIC GRAVITY (WATER = 1) 0.72
BOILING POINT 56.6-93.3°C (133-200°F)	SOLUBILITY IN WATER Appreciable (> 20%)
FLASH POINT -20°C (-4°F)	VISCOSITY ND
FLAMMABLE LIMITS LEL: 2.60% UEL: 12.80%	VAPOUR DENSITY (AIR = 1) 3.8
AUTOIGNITION TEMPERATURE 204°C (399°F)	EVAPORATION RATE (Butyl Acetate = 1) 2.8

SECTION 10 - STABILITY AND REACTIVITY

STABILITY STABLE X	CONDITIONS TO AVOID: High temperatures, sparks, open flames, live electrical circuits.
INCOMPATIBILITY (MATERIALS TO AVOID): oxidizers, strong acids	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapours, soot and smoke may be produced.	
HAZARDOUS POLYMERIZATION: Will not occur.	CONDITIONS TO AVOID: None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
Heptane	142-82-5	NR	103 gm/m ³ /4 hour (inhalation, rat)
	205-563-8		
Acetone	67-64-1	> 15.4 gm/kg (oral, rat)	50 gm/m ³ (Lowest Published Toxic Concentration, Inhalation, Rat)
	200-662-2		
(Dibutylamine)bis(dibutyl-di-thiocarbamate-S,S')zinc	35884-05-0	NE	NE
	252-774-6		


SECTION 12 - ECOLOGICAL INFORMATION

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. Heptane is considered to be harmful to the environment by the European Union.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
 Dispose of in accordance with Local, State, and Federal Regulations. This product may produce hazardous vapours in a closed disposal container creating a dangerous environment. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Adhesives, Flammable, UN 1133	
DOT HAZARD CLASS / Pack Group: Class 3 / PG II REFERENCE: UN / NA IDENTIFICATION NUMBER: UN 1133 LABEL: Flammable	IATA HAZARD CLASS / Pack Group: Class 3, PG II IMDG HAZARD CLASS: 3 RID/ADR Dangerous Goods Code: 3 UN TDG Class / Pack Group: Class 3, PG II
HAZARD SYMBOLS: <div style="text-align: center; margin-top: 10px;">  </div>	Hazard Identification Number (HIN): 33

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act):		Listed	
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):			
Acute Health:	Yes	Chronic Health:	Yes
Fire:	Yes	Sudden Release of Pressure:	Yes*
Reactive:	No	* Containers may Rupture and release contents.	

SARA 313 REPORTABLE INGREDIENTS: Acetone (CAS 67-64-1)	
CERCLA (USA - Comprehensive Response Compensation and Liability Act):	RQ=24000 lbs (10880 kg) for product.
California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:	None
CPR (Canadian Controlled Products Regulations):	None
IDL (Canadian Ingredient Disclosure List):	Listed
DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):	Listed on CDSL.
EINECS (European Inventory of Existing Commercial Chemical Substances):	Listed.

WGK Water Quality Index: 1


RISK PHRASES:	SYMBOL(S) REQUIRED FOR EU LABEL	SAFETY PHRASES:
R11 Highly flammable. R38 Irritating to skin. R50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. R65 Damaging to lungs when swallowed. R67 Vapours may cause drowsiness and dizziness.	 <p style="text-align: center;">Flammable Environment Harmful</p>	S9 Keep container in a well-ventilated place. S16 Keep away from sources of ignition S29 Do not empty into drains. S33 Take precautionary measures against static discharges. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions / safety data sheets. S62 If swallowed, do not induce vomiting; seek medical advice immediately and show this label.

SECTION 16 - OTHER INFORMATION

Legend:
ACGIH - American Congress of Government Industrial Hygienists
CAS - Chemical Abstracts Service
EINECS- European Inventory of Existing Commercial Chemical Substances
HMS - Hazardous Materials Identification System
IARC - International Agency for Research on Cancer
NA - Not Available ND - Not Determined
NE - Not Established NR - Not Reported
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration

HMS HAZARD RATINGS	HEALTH:	1	0 = INSIGNIFICANT
	FLAMMABILITY:	3	1 = SLIGHT
	PHYSICAL HAZARD:	0	2 = MODERATE
	PERSONAL PROTECTIVE EQUIPMENT:	B	3 = HIGH
			4 = EXTREME

REVISION SUMMARY:
 Revised 13 January 2009. LB

MSDS Prepared by: ChemTel Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtelinc.com	
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The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.