

MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION									
PRODUCT NAME: FAST DRY SELF VULCANIZING CEMENT		MSDS NUMBER: 0223		DATE: 28 January 2011					
PRODUCT NUMBER: 16-450, 16-451, 16-452, 98-854, 98-855									
TRADE NAME: VULCANIZING CEMENT GENERAL USE: Adhesive CHEMICAL FAMILY: Organics PRODUCT DESCRIPTION: Milky white, flammable liquid with a hydrocarbon odor.		 <p style="font-size: small; margin: 0;">Patch Rubber Company A Itylers Industries Company</p>							
MANUFACTURER Patch Rubber Company		DATE PREPARED: 28 January 2011							
ADDRESS (NUMBER, STREET, P.O. BOX) PO Box H		SUPERSEDES: 2 December 2010							
(CITY, STATE AND ZIP CODE) Roanoke Rapids, NC 27870		COUNTRY USA		CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS					
TELEPHONE NUMBER (General Inquiries) (252) 536-2574				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px; text-align: center;">1-800-255-3924</td> <td style="padding: 5px; text-align: center;">813-248-0585</td> </tr> <tr> <td style="padding: 5px; text-align: center;">North America (Toll Free)</td> <td style="padding: 5px; text-align: center;">International and Local Calls</td> </tr> </table>		1-800-255-3924	813-248-0585	North America (Toll Free)	International and Local Calls
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SECTION 2 - HAZARDOUS INGREDIENTS									
Hazardous Components	% (by Weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES (Full Text Section 15)				
Heptane	>90%	142-82-5	205-563-8	F, Xn, N	R11, 38, 50/53, 66, 67				
(Dibutylamine)bis(dibutyl-di-thiocarbamate-S,S')zinc	1-5%	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 Directives. 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) directives and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directives.									
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. Cancer Information: There is no information available. The chance of this material causing cancer is unknown. Developmental Information: There are no data available for assessing risk to the fetus from maternal exposure to this material.									
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.									
Note to Physicians: Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 – Swallowing) when deciding whether to induce vomiting. Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions). Individuals with pre-existing heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.									
CARCINOGENICITY:									
NTP? NO		IARC MONOGRAPHS? NO		OSHA REGULATED? NO					
CALIFORNIA, Prop.65? Yes Benzene, Ethyl Benzene and Toluene, Cancer and Reproductive hazards. See also section 15.				ESIS NOTATION? NO					

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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.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:

Product is flammable, with a flash point of -10°C (15°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. Material is highly volatile and readily gives off vapors, which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drums (even empty) because product (even just residue) can ignite explosively.

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 face piece 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 breathing 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/m3	STEL ppm	STEL mg/m3	TLV/TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3
Heptane	85	350	NR	NR	400	1640	500	2050
(Dibutylamine)bis(dibutyl)di-thiocarbamate-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

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SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)

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.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR Milky white liquid, characteristic hydrocarbon odor	VAPOUR PRESSURE 45 mm Hg @ 20°C (68°F)
pH NA	SPECIFIC GRAVITY (WATER = 1) 0.708
BOILING POINT 93.3°C (200°F) @ 760mm Hg	SOLUBILITY IN WATER Negligible
FLASH POINT (-10°C, 15°F)	VISCOSITY ND
FLAMMABLE LIMITS LEL: 1.10% UEL: 6.70%	VAPOUR DENSITY (AIR = 1) 3.5
AUTOIGNITION TEMPERATURE 203.8°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.
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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		
(Dibutylamine)bis(dibutyl-di-thiocarbamate-S,S')zinc	35884-05-0	NE	NE
	252-774-6		

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.

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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: ORM-D Consumer Commodity (USA)		IATA HAZARD CLASS / Pack Group: Class 3, PG II	
REFERENCE: 49 CFR 172.101 UN / NA IDENTIFICATION NUMBER: UN 1133		IMDG HAZARD CLASS: 3 RID/ADR Dangerous Goods Code: 3 UN TDG Class / Pack Group: Class 3, PG II Hazard Identification Number (HIN): 33	
LABEL: Flammable		HAZARD SYMBOLS:  	
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.			
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: None reportable.			
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: This material may contain the following components which are known to the State of California to cause cancer, birth defects or other reproductive harm, and may be subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5): Levels of Benzene, Ethylbenzene less than 0.01% each. Level of Toluene: less than <0.05%.			
State Right To Know: n-Heptane is listed as follows: NJ, PA, MA, RI			
CPR (Canadian Controlled Products Regulations):		This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR. WHMIS Hazard Class B2, D2B.	
 			
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.	      Flammable Environment Harmful		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.

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SECTION 16 - OTHER INFORMATION

Legend:

- ACGIH - American Congress of Government Industrial Hygienists**
- CAS - Chemical Abstracts Service**
- EINECS - European Inventory of Existing Commercial Chemical Substances**
- HMIS - 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**

HMIS HAZARD RATINGS	HEALTH: FLAMMABILITY: PHYSICAL HAZARD: PERSONAL PROTECTIVE EQUIPMENT:	1 3 0 B	0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME
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REVISION SUMMARY:
 Revised to USA (ANSI), EU, Canadian, and GHS standards 01/28/2011 Supersedes 12/02/2010 issue. JTV & LB .

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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.