



EQUIPPING THE TYRE INDUSTRY

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Fast Dry Cement

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Fast dry self vulcanising cement Part no: 16-451

PRODUCT IDENTIFICATION:

FAST DRY SELF-VULCANISING CEMENT (16-451)

DOT PROPPER SHIPPING NAME: adhesive consumer commodity

ID NUMBER: UN 1133 PG 11 ORMD-D

DOT HAZARD CLASSIFICATION: 3

PRECAUTIONARY WARNING

DANGER: Extremely flammable liquid & vapour: Causes severe eye irritation, Aspiration hazard if swallowed. Can enter lungs and cause damage. No smoking or open flame. Keep away from heat sparks, flame or other sources of ignition (e.g. static electricity, pilot lights or mechanical/electrical equipment). Open container slowly to relieve any pressure. Keep container tightly closed. Use with adequate ventilation. Do not pressurise, cut, weld, braze, solder, grind, or drill on or near container. "Empty" container retains residue (liquid and or vapour) and may explode in heat of a fire. Bond and ground all equipment when transferring from one vessel to another. Avoid contact with eyes. Do not taste or swallow. Wash thoroughly after handling.

FIRST AID: Danger-Aspiration hazard. If swallowed, do not induce vomiting. Call a physician. In case of contact, flush eyes or skin with plenty of water. **Note to physicians:** epinephrine and other sympathomimetic drugs should be used cautiously, if at all. If used, observe for development of cardiac arrhythmias.

HAZARDOUS COMPONENTS:

Heptanes	74.5-76.5wt%		
CAS # 142-82-5	400ppm	ACGIH	TWA
	500ppm	ACGIH	STEL
	500ppm	MSHA	TWA
	400ppm	OSHA	TWA
	550ppm	OSHA	STEL
Rev/2000	400ppm	CAL OSHA	TWA

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HAZARDOUS COMPONENTS (CONTINUED)

ACETONE

18-20Wt%

CAS # 67-64-1

ACGIH	TWA	
1000PPM	ACGIH	STEL
1000PPM	MSHA	TWA
750PPM	OSHA	TWA
1000PPM	OSHA	STEL
750PPM	CAL OSHA	TWA
3000PPM	CAL OSHA	CEIL

Zinc-Dibutyl dithiocarbamate/ Dibutylamine -complex
CAS # 35884-05-0 1-2Wt% not established

Fast dry self-vulcanising cement contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

<u>ACETONE</u>	<u>CAS NUMBER</u>	<u>WEIGHT %</u>
Zinc Dibutyl/Dithiocarbamate/ Dibutylamine Complex (As Zinc compounds)	67-64-1 35884-05-0	18-20 1-2

EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: immediately Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, immediately hold eyelids apart and flush affected eye(s) with clean water for at least 20 minutes. Seek medical attention.

SKIN CONTACT: Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION (BREATHING): If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek medical attention.

INGESTION (SWALLOWING):

DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH because this material can enter the lungs and cause severe lung damage. If victim is drowsy or unconscious, place on left side with head down. If possible, do not leave victim unattended. Seek medical attention.

COMMENTS: notes to physician: exposure to high concentrations of this material (e.g. in enclosed spaces or with deliberate abuse) may be associated with cardiac arrhythmias in persons exposed to this material. Other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for development of cardiac arrhythmias.

HEALTH HAZARDS/ROUTES OF ENTRY:

EYE CONTACT: This material is severe eye irritant. Direct contact with liquid or exposure to vapours or mists may cause, stinging, tearing, redness, swelling and blurred vision.

SKIN CONTACT: this material may cause skin irritation. Prolonged or repeated contact may cause redness, burning and cracking and drying of the skin. There is insufficient information available on this material to predict the effects from skin absorption. However, studies by other exposure routes suggest a low degree of hazard by skin absorption. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INHALATION (BREATHING): while this material has a low degree of toxicity, breathing high concentrations of vapours or mists may cause irritation of the nose and throat and signs of nervous system depression (e.g. headache, drowsiness, dizziness, loss of co-ordination and fatigue). Respiratory symptoms associated with pre-existing lung disorders (e.g. asthma-like conditions) may be aggravated by exposure to this material.

INGESTION SWALLOWING: while this material has a low degree of toxicity, ingestion of excessive quantities may cause irritation of the digestive tract, diarrhoea, and signs of nervous system depression (e.g. headache, drowsiness, dizziness, loss of co-ordination, and fatigue).

Aspiration hazard: this material can enter lungs during swallowing or vomiting and cause lung inflammation and damage

COMMENTS: This material has not been identified as a carcinogen by NTP, IARC or OSHA. Persons with pre-existing heart disorders may be more susceptible to irregular heartbeats (arrhythmias) if exposed to high concentrations of this material. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

SPECIAL PROTECTION INFORMATION:

VENTILATION: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional exhaust

systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

RESPIRATORY PROTECTION: The use of respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentrations, use a respirator or gas mask with appropriate cartridges or canisters (NOSH approved if available) or supplied air equipment.

PROTECTIVE GLOVES: The use of gloves impermeable to the specific material handled is advised to prevent skin contact, possible irritation and absorption.

EYE PROTECTION: The use of face shield and/or chemical goggles to safeguard against potential eye contact, irritation or injury is recommended.

OTHER PROTECTIVE EQUIPMENT: eye wash and quick drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that an impervious apron be worn.

REACTIVITY DATA:

REACTIVITY: stable under normal conditions of storage and handling.

CONDITIONS AFFECTING REACTIVITY: Avoid all possible sources of ignition.

INCOMPATIBILITY MATERIALS: This product is incompatible with strong acids, bases, oxidising agents, and selected amines.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may yield carbon monoxide and/or carbon dioxide, do not breathe smoke or fumes. Wear appropriate protective equipment.

HAZARDOUS POLYMERISATION: Will not occur.

POLYMERISATION CONDITIONS TO AVOID: None known.

SPILL OR LEAK PROCEDURES

PRECAUTIONS IN CASE OF RELEASE OR SPILL: Extremely flammable. Keep all sources of ignition and hot metals away from spill/release. Stay upwind and away from spill/release. Isolate hazard area and limit entry to emergency

crew. Stop spill/release if it can be done without risk. Wear appropriate protective clothing including respiratory protection as conditions warrant. Prevent spilled material from entering sewers, storm drains, other unauthorised treatment drainage systems and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Use water sparingly to reduce disposal requirements. Notify fire authorities and appropriate federal, state and local authorities. Immediate cleanup of any spill is recommended. If spill in excess of EPA reportable quantity is made into the environment, immediately notify local authority.

EPA REPAORTABLE QUANTITY: Acetone 5,000lbs. Equivalent to 25,000lbs of this product.

WASTE DISPOSAL METHOD: Dispose of product in accordance with local, state and federal regulations.

FIRE AND EXPLOSION HAZARD DATA:

HAZARD RANKING

NFPA	HEALTH HAZARD	1	0-LEAST	<u>FLASH POINT</u>
HAZARD	FLAMABILITY	3	1-SLIGHT	-4F (TCC)
CLASS	REACTIVITY	0	2-MODERATE	
	OTHER	-	3-HIGH	<u>AUTO</u>
<u>IGNITION</u>			4-EXTREME	1000F
			*-CHRONIC HEALTH AFFECTS	
HMIS	HEALTH HAZARD	2		
HAZARD	FLAMABILITY	3		
CLASS	REACTIVITY	0		
	PPE			

LOWER EXPLOSIVE LIMIT (% VOL) UPPER EXPLOSIVE LIMIT (% VOL)
1.0 13.2

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FIRE AND EXPLOSION HAZARD (CONTINUED)

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, halon, polar or alcohol foam or water spray is recommended. Water may be ineffective.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material is extremely flammable and may be ignited by heat, sparks, flame or other sources of ignition. (E.g. static electricity, pilot lights, mechanical/electrical equipment). Vapours may travel considerable distances to a source of ignition where they may ignite flashback or explode. Vapour/air explosion hazard indoors/outdoors or in sewers, vapours are heavier than air and may accumulate in low areas. If container is not properly cooled, it may explode in the heat of a fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear appropriate protective equipment including respiratory protection as conditions warrant. Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimising or dispersing vapours and cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.

PHYSICAL DATA:

APPROX BOILING POINT:	133-209F
VAPOUR DENSITY (AIR=1):	Heavier than air
VAPOUR PRESSURE:	(mm Hg): 186
EVAPOURATION RATE (N-BUTYL ACETATE=1):	4.50
% VOLATILE:	94-96
% SOLUBILITY IN WATER:	<24
SPECIFIC GRAVITY:	0.72
APPROX BULK DENSITY (lb./GAL)	6.02
APPEARANCE:	milky
ODOUR:	characteristic

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