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WALKER ENGINEERING CENTER

Hazard Analysis/Release Form

Date: 9/17/93 Analysis By: H. B. Spraggins
MSDS: 00714 MFR: Yate Engineering Co.
Material Name: Muffler Cement
Trade Name: Muffler Cement
Usage: Muffler Repair

ANALYSIS

Health: 1 Flammability: 0 Reactivity: 0
Pers. Prot: H Chronic: NO
Comments: Gloves and goggles are recommended

HMIS CODE: HMIS-Hazard -MS 714-L 1 -H 1 -F 0 -R 0 -P

ASTERISK? NO

THIS MATERIAL ANALYSIS HAS BEEN COMPLETED WITH INFORMATION AVAILABLE AT THIS DATE. THIS RATING IS SUBJECT TO CHANGE AS NEW MATERIAL IS PUBLISHED BY THE MANUFACTURER OR OTHER SOURCE DOCUMENTS.

Material Released for Use Material not to be used in workplace

By: B. Spraggins (Name) Mgr. H.B. (Title) 9/17/93 (Date)

MATERIAL SAFETY DATA SHEET NPVLA 6-70

(Approved by U.S. Department of Labor "Essentially Similar" to Form LSB-00S-4)

Section I	
MANUFACTURER'S NAME YALE ENGINEERING COMPANY	
STREET ADDRESS 4025 NORTH RAVENSWOOD AVE.	
CITY, STATE, AND ZIP CODE CHICAGO, ILL. 60613.	
EMERGENCY TELEPHONE NO. (312) 975 - 0054	
CHEMICAL NAME AND SYNONYMS High Temperature Bonding Cement	TRADE NAME Muffler Cement
CHEMICAL FAMILY Exhaust System Sealer	FORMULA Hydrated Sodium & Magnesium Silicate

Section II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS					
PIGMENTS	%	TLV (Units)	SOLVENTS	%	TLV (Units)
NONE			NONE		
CATALYST			ADDITIVES		
NONE			NONE		
VEHICLE			OTHERS		
WATER			NONE		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NONE					

Section III - PHYSICAL DATA			
BOILING POINT (*F.)	250 F.	SPECIFIC GRAVITY (H ₂ O=1)	Greater than 1.0
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	Approx. 40%
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (.....=1)	N.A.
SOLUBILITY IN WATER	Dispersable		
APPEARANCE AND ODOR	Greyish-no perceptable odor		

Section IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (METHOD USED)	None	FLAMMABLE LIMITS	N.A.
EXTINGUISHING MEDIA		Lel	Uel
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE	N.A.
EFFECTS OF OVEREXPOSURE	IRRITATION IF INGESTED, EYE CONTACT OR SKIN CONTACT
EMERGENCY AND FIRST AID PROCEDURES	IF SPLASHED IN EYES, OR ON SKIN, FLUSH COPIOUSLY WITH WATER. IF INGESTED DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. CALL PHYSICIAN.

Section VI — REACTIVITY DATA

STABILITY Very	UNSTABLE		CONDITIONS TO AVOID
	STABLE *		
INCOMPATIBILITY (Materials to avoid)	None		
HAZARDOUS DECOMPOSITION PRODUCTS	None		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Flush away with water
WASTE DISPOSAL METHOD	Dilute with water.

Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	None required unless atomized.		
VENTILATION	LOCAL EXHAUST	None needed	SPECIAL N.A.
	MECHANICAL (General)	None needed	OTHER N.A.
PROTECTIVE GLOVES	Suggested	EYE PROTECTION	Protective goggles
OTHER PROTECTIVE EQUIPMENT	None required		

Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Keep from freezing. Store at ambient temperatures in tightly closed containers.
OTHER PRECAUTIONS FOR MANUFACTURING USE:	Keep pumping system airtight. Keep exit nozzle under water when not in use. Flush system thoroughly with water at regular intervals. Suggested Pumping Pressure 60 P.S.I. or more
Product Wt.	Approx. 12 lbs./Gal.

Walker Manufacturing
Division of Tenneco Automotive

3901 Willis Road
P.O. Box 157
Grass Lake, Michigan 49240
(517) 522-5500



October 13, 1987

Yale Engineering Company
4025 N. Ranswood Avenue
Chicago, IL 60610

Gentlemen:

In an effort to comply with our State's Toxic Substances Disclosure to Employees Act and with the OSHA Hazard Communication rule, we are writing you today to ask your cooperation in providing us with Material Safety Data Sheets on the item(s) listed below:

Muffler Cement Yale

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VINCENT SCIRE

It is imperative we receive this information no later than 10/16/87. Your cooperation will be appreciated. Please direct your response to the writer.

Sincerely,


P.E. Stevens
Purchasing

PES/rir

WALKER