

MATERIAL SAFETY DATA SHEET

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

IDENTITY <small>(As shown on label or package)</small>		PART NO. IF APPLICABLE	
Universal Cement			
SECTION I			
Manufacturer's Name Cemal Tire Care Products		Emergency Phone No. (918) 687-5427	
Address (Number, Street, City, State, and Zip Code)		Signature of Preparer: (Optional)	
P.O. Box 769			
500 S. E. 48th St.		Manufacturer's Phone No. for Information (918) 687-5427	
Muskogee, Oklahoma 74402-0769		Date MSDS was prepared 6/13/90	
SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION. All Health Hazards which comprise 1% or greater of the composition and all carcinogens if 0.1% of the composition or greater			
Hazardous Components <small>(Specific Chemical Identity and Common Name(s), if any.)</small>	CAS NO.	OSHA PEL	ACGIH TLV
		OTHER LIMITS RECOMMENDED	% (OPTIONAL)
1.1.1. Trichloroethane	71-55-6	350PPM	350 PPM 80
1.4 Diethylene Dioxane			1.8
Non-hazardous Ingredients*			17.4
*Unidentified ingredients are not considered hazardous under the Federal Hazard Communication Standard (29CFR) 1910.1200.			
SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS			
Boiling Point 165° F	Specific Gravity (H ₂ O=1) 1.3 - 1.4	Melting Point N/A	
Vapor Pressure (mm Hg.) 100	Vapor Density (AIR=1) 4.6	Evaporation Rate (Butyl Acetate=1) (Ether = 1) 41	
Solubility in Water Insoluble	% Volatile by Volume >90	Other (If any) N/A	
Appearance and Odor Amber Viscous Clear liquid; solvent odor.			
SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (Method Used) None (TCC)	Flammable Limits LEL 8%	UEL 10.5%	
Extinguishing Media Carbon dioxide, dry chemical, foam or water fog.			
Special Fire Fighting Procedures Wear self-contained breathing apparatus (SCBA).			
Unusual Fire and Explosion Hazards None known.			
Hazardous products formed by fire or thermal decomposition Highly Toxic & Irritating Fumes.			
Explosive Limits (% by volume in air) 100			
SECTION V - OPTIONAL HAZARD RATINGS IDENTIFICATION			
Hazardous Materials Identification System (HMIS)		National Fire Protection Association (NFPA)	
HEALTH 2	REACTIVITY 0	FIRE 1	REACTIVITY 0
FLAMMABILITY 1	PERSONAL PROTECTION G <small>(If vapor exceeds 350 PPM)</small>	HEALTH 3	SPECIAL HAZARDS None

SECTION VI - REACTIVITY and STABILITY DATA

STABILITY	Unstable		Conditions to avoid
	Stable	X	
INCOMPATIBILITY (Materials to Avoid) Strong oxidizers, alkalies			
HAZARDOUS DECOMPOSITION or BY PRODUCTS Hydrogen chloride, Carbon Monoxide, Carbon Dioxide, traces of phosgene and chlorine.			
HAZARDOUS POLYMERIZATION	May Occur		Conditions to avoid
	Will not Occur	X	None known

SECTION VII - HEALTH HAZARD DATA

Routes of entry	Inhalation?	X Yes	Skin?	X Yes	Ingestion?	X Yes	Eyes?	X Yes
Health Hazards	Acute							
	Chronic	X	Chronic over-exposure could result in liver disease and rhythm disorders of the heart.					
Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?								
Not a carcinogen according to OSHA/NTP/IARC								
Signs and Symptoms of Exposure None								
Medical Conditions Generally Aggravated by Exposure None								
Emergency and First Aid Procedures Eyes: Immediately flush with large amt. of water for 15 minutes holding eyelids open. Skin: Remove contaminated clothing and wash skin with water. Inhalation: Move to fresh air. Ingestion: Immediately contact physician or local Poison Control Center.								

SECTION VIII - PRECAUTIONS FOR SAFE HANDLING and USE

Steps to be Taken In Case Material is Released or Spilled	Wear personal protective equipment. Remove heat and ignition sources; ventilate the area; clean up with inert absorbant.
Waste Disposal Method	May be burned in an approved incinerator or dispose of
Precautions to be Taken in Handling & Storage	according to Local, State and Federal Regulations. Store in closed container in cool, well-ventilated area.
Other Precautions	None to Physician; Do not give epinephrine-type drugs

SECTION IX - CONTROL MEASURES

Respiratory Protection If TLV exceeded or for symptoms of overexposure, wear (Specify Type)	NIOSH approved respirator for organic vapors to maintain exposure levels below 350PPM.	Protective Clothing or Equipment	Neoprene or Chemical resistant.
Ventilation	Local Exhaust	Special	None
	Mechanical (General)	Other	None
Eye Protection	Safety Glasses	Other Protective Clothing or Equipment	None
Work/Hygiene Practices Avoid skin contact and breathing vapors. Wash hands prior to eating, drinking or going to restroom.			

SECTION X - TRANSPORTATION INFORMATION (optional)

D.O.T. Proper Shipping Name	1,1,1, Trichloroethane	D.O.T. Hazard Class	ORM-A
If a "Consumer Commodity ORM-D", What is the qualifying Chemical? or ORM-A 1,1,1, Trichloroethane			
D.O.T. I.D. NO. (UN or NA)	UN 2831	Hazard Label or Marking Required on Shipper Ctn.	None
IATA Proper Shipping Name	1,1,1 Trichloroethane	IATA Hazard Class	ORM-A
		IMO No.	6.1