

OSHA 101-101-101
918 581-1616

Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET

765-1198
765-1198
765-1199

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I	
MANUFACTURER'S NAME H. B. Egan Mfg. Company	EMERGENCY TELEPHONE NO. (918) 687-5427
ADDRESS (Number, Street, City, State, and ZIP Code) 425 North Main, Muskogee, Oklahoma 74401	
CHEMICAL NAME AND SYNONYMS 1, 1, 1 - Trichloroethane	TRADE NAME AND SYNONYMS BK Universal Cement 765-1198
CHEMICAL FAMILY Chlorinated Solvent	FORMULA

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS		(94.5) 350 PPM	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	165° F	SPECIFIC GRAVITY (H ₂ O=1)	1.321
VAPOR PRESSURE (mm Hg.)	(100)	PERCENT VOLATILE BY VOLUME (%)	100%
VAPOR DENSITY (AIR=1)	(4.55)	EVAPORATION RATE (_____ = 1)	
SOLUBILITY IN WATER	.07 gm/100 gm		
APPEARANCE AND ODOR	Colorless Liquid - Slight Odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA							
FLASH POINT (Method used)	None T.C.C.	FLAMMABLE LIMITS	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Lel</td> <td style="width: 50%;">Uel</td> </tr> <tr> <td>8.0</td> <td>10.5</td> </tr> </table>	Lel	Uel	8.0	10.5
Lel	Uel						
8.0	10.5						
EXTINGUISHING MEDIA	Water Fog						
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained respiratory equipment. Not considered a flammable liquid hazard under normal industrial use conditions.						
UNUSUAL FIRE AND EXPLOSION HAZARDS							

THRESHOLD LIMIT VALUE	350 PPM
EFFECTS OF OVEREXPOSURE	Anesthetic effects - May occur in the range of 500 to 1000 PPM
EMERGENCY AND FIRST AID PROCEDURES	Eyes and skin: Flush with plenty of water.
	Inhalation: If breathing stops, give artificial respiration.
	Ingestion: Induce vomiting. Call physician immediately.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID	Open flames, welding areas
	STABLE	X		or other high temperature sources.
INCOMPATIBILITY (Materials to avoid)	Water			
HAZARDOUS DECOMPOSITION PRODUCTS	High temperatures can cause thermal degradation with HCl or Phosgene.			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID	
	WILL NOT OCCUR	X		

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Use proper protective equipment. Small leaks: Mop up or soak up. Large spills: Evacuate area - contain liquid - transfer to metal containers
WASTE DISPOSAL METHOD	Send to reclaimer. In some cases it can be transported to an area where it can be allowed to evaporate safely.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)	Below 350 PPM - None	
VENTILATION	LOCAL EXHAUST	SPECIAL
	MECHANICAL (General)	OTHER Limit concentration to TLV
PROTECTIVE GLOVES	None	EYE PROTECTION Safety glasses without side shields
OTHER PROTECTIVE EQUIPMENT	Eye wash stations should be readily available.	

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Handle with reasonable care. Avoid breathing vapors. Store in cool dry place.
OTHER PRECAUTIONS	Physicians Note: Over-exposure may temporarily increase cardiac irritability. Maintain adequate oxygenation until recovery.