

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

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

SECTION I

MANUFACTURER'S NAME Carlton, an Indian Head Company		EMERGENCY TELEPHONE NO. (216) 831-4000
ADDRESS (Number, Street, City, State, and ZIP Code) 25701 Science Park Drive, Beachwood, Ohio 44122		
CHEMICAL NAME AND SYNONYMS Polyvinyl Chloride Solvent Cement		TRADE NAME AND SYNONYMS Carlton PVC Solvent Cement
CHEMICAL FAMILY Adhesive	FORMULA PVC(15%), Cyclohexanone(10%), THF (75%)	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Flammable Tetrahydrofurane (THF)	75	200 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)	Tetrahydrofurane 151°F Cyclohexanone 338°F	SPECIFIC GRAVITY (H ₂ O=1)	THF 0.888 Cyclohexanone 0.9478
VAPOR PRESSURE (mm Hg.)	Unknown	PERCENT VOLATILE BY VOLUME (%)	85%
VAPOR DENSITY (AIR=1)	Unknown	EVAPORATION RATE (.....=1)	Unknown
Solubility in Water	THF 9% Cyclohexanone 2%		
APPEARANCE AND ODOR Heavy syrup consistency(700-800cps) with ether odor, gray color			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	Tag closed cup	FLAMMABLE LIMITS	Let	Uel
THF (6°F), Cyclohexanone (145°F)		Tetrahydrofurane	1.84	11.8
EXTINGUISHING MEDIA Carbon dioxide, dry chemical, foam, water fog				
SPECIAL FIRE FIGHTING PROCEDURES None				
UNUSUAL FIRE AND EXPLOSION HAZARDS None				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV)

Tetrahydrofurane (THF) component has a TLV of 200 ppm

EFFECTS OF OVEREXPOSURE

Possible nausea with inadequate ventilation

EMERGENCY AND FIRST AID PROCEDURES

Provide normal ventilation

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)			
None			
HAZARDOUS DECOMPOSITION PRODUCTS			
None			
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

Avoid prolonged breathing of vapors. Remove sources of open flame.

Avoid prolonged skin contact (solvent has a drying effect on skin).

Provide adequate ventilation to disperse solvent vapors.

WASTE DISPOSAL METHOD

Scrape or mop up, as solvents disperse material will solidify into skin or lumps of PVC plastic - dump in land fill refuse disposal.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

None required with normal area ventilation.

VENTILATION	LOCAL EXHAUST Provide normal area ventilation.	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Not required.		EYE PROTECTION Not required.
OTHER PROTECTIVE EQUIPMENT Avoid contact with open flame (flammable solvent).		

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not store or use near open flame. Provide normal ventilation. Avoid prolonged contact with skin (solvent has drying effect on skin).

OTHER PRECAUTIONS

None -- No toxicity hazards.

Protect from freezing. Cement thickens to useless consistency if frozen.