

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 THERMACOTE WELCO COMPANY		EMERGENCY TELEPHONE NO. 1-704-739-6421
ADDRESS (Number, Street, City, State, and ZIP Code) HWY 161, YORK ROAD, KINGS MOUNTAIN, NORTH CAROLINA 28086		
CHEMICAL NAME AND SYNONYMS TRIMETHYL BORATE (MAIN INGREDIENT)		TRADE NAME AND SYNONYMS SPEEDFLUX TYPE LPG
CHEMICAL FAMILY BORATE ESTER	FORMULA (CH₃O)₃B	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
		TRIMETHYL BORATE	CAS 121-43-7		200PPM
		METHANOL	CAS 67-56-1		200PPM
		ACETONE	CAS 67-64-1		1000PPM

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	137°F.	SPECIFIC GRAVITY (H ₂ O=1) @ 68° F.	0.855
VAPOR PRESSURE (mm Hg.) @ 68°F.	100 MM	PERCENT, VOLATILE BY VOLUME (%)	COMPLETE
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (Butyle Acetate = 1)	16.0
SOLUBILITY IN WATER	DECOMPOSES @ 10%		
APPEARANCE AND ODOR	COLORLESS LIQUID- CHARACTERISTIC ODOR		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	18°F. C.O.C.	FLAMMABLE LIMITS	Lel	Uel
			6.0%	36.5%
EXTINGUISHING MEDIA	CO ₂ OR DRY CHEMICAL - WATER			
SPECIAL FIRE FIGHTING PROCEDURES	SIMILAR TO ALCOHOLS, ADDITION AND DILUTION OF BURNING			
	LIQUID WILL REDUCE INTENSITY AND EFFECT EXTINGUISHMENT.			
UNUSUAL FIRE AND EXPLOSION HAZARDS	TEMPERATURES ABOVE 130° F. OR CLOSED UNVENTILATED PLACES			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 200 P.P.M. MAC

EFFECTS OF OVEREXPOSURE
AS METHANOL - BREATHING MAY CAUSE DROWSINESS, NAUSEA, SWALLOWING COULD CAUSE ABOVE PLUS SEVERE ILLNESS, BLINDNESS, DEATH

EMERGENCY AND FIRST AID PROCEDURES
CALL MEDICAL AID. REMOVE TO FRESH AIR, FLUSH SKIN AND EYES WITH WATER. IF SWALLOWED, INDUCE VOMITING, IF BREATHING DIFFICULT, ADMINISTER OXYGEN.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	WATER WILL CAUSE DECOMPOSITION

INCOMPATIBILITY *(Materials to avoid)*

HAZARDOUS DECOMPOSITION PRODUCTS METHANOL

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
ELIMINATE SOURCES OF POSSIBLE IGNITION. REMOVE LEAKING CONTAINER TO OPEN AIR. HOSE AREA COPIOUSLY WITH WATER.

WASTE DISPOSAL METHOD CONTACT RELIABLE APPROVED DISPOSER OF CHEMICAL WASTE

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)*
WITH EXTREME POOR VENTILATION USE ORGANIC CANISTER OR SUPPLIED AIR

VENTILATION	LOCAL EXHAUST ACCEPTABLE	SPECIAL
	MECHANICAL <i>(General)</i> ACCEPTABLE	OTHER

PROTECTIVE GLOVES RUBBER EYE PROTECTION COVERALL GOGGLES

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
AVOID DROPPING CONTAINERS. STORE WITH OTHER FLAMMABLES AWAY FROM BRAZING AREA.

OTHER PRECAUTIONS DO NOT POUR FROM OPEN CONTAINERS IN BRAZING AREA.