

# 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 <b>THERMACOTE WELCO COMPANY</b>		EMERGENCY TELEPHONE NO. <b>1-704-739-6421</b>
ADDRESS (Number, Street, City, State, and ZIP Code) <b>HWY 161, YORK ROAD, KINGS MOUNTAIN, NORTH CAROLINA 28086</b>		
CHEMICAL NAME AND SYNONYMS <b>TRIMETHYL BORATE (MAIN INGREDIENT)</b>	TRADE NAME AND SYNONYMS <b>SPEEDFLUX TYPE B2</b>	
CHEMICAL FAMILY <b>BORATE ESTER</b>	FORMULA <b>(CH<sub>3</sub>O)<sub>3</sub>B</b>	

## 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 <sub>2</sub> 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	L <sub>el</sub>	U <sub>el</sub>
			6.0%	30.5%
EXTINGUISHING MEDIA	CO <sub>2</sub> 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 *(General)*

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.