

MATERIAL SAFETY DATA SHEET

THOMAS & BETTS CORPORATION, 8155 T&B BOULEVARD, MEMPHIS, TENNESSEE 38125

T&B CATALOG NO: SEE SECTION 11 OTHER INFORMATION
FOR COMPLETE LIST OF T&B CATALOG NUMBERS
PRODUCT DESCRIPTION: FURSEWELD[®] STARTING MATERIAL
NOTE: THIS MATERIAL IS NOT SOLD SEPARATELY

PAGE: 1 OF 7
REVISION: 3
DATE PREPARED: January 7, 2011
DOCUMENT NUMBER: MSDS-0086

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: FURSEWELD[®] STARTING MATERIAL
(NOTE: THIS MATERIAL IS NOT SOLD SEPARATELY)
GENERAL USE: TO JOIN TWO OR MORE CABLES, GROUND RODS OR REBAR
PRODUCT DESCRIPTION:
GENERIC INGREDIENT: COPPER OXIDE GRANULES AND ALUMINUM

24 HOUR EMERGENCY TELEPHONE NUMBERS: CHEMTREC (703) 527-3887 / (800) 424-9300
FOR PRODUCT INFORMATION: CALL THOMAS & BETTS; (901) 252-5000 ext. 8324

SECTION 2 HAZARDOUS INGREDIENTS

OSHA HAZARDOUS INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>% BY WT</u>	<u>ACGIH TLV</u>	<u>ACGIH TLV-C</u>	<u>ACGIH STEL</u>	<u>OSHA PEL</u>	<u>OTHER LIMITS OF EXPOSURE</u>
COPPER OXIDE	1317-39-1	NOT > 55%	1.0 DUST 0.2 FUME	N/A	N/A	1.0 DUST 0.1 FUME	N/A
ALUMINUM	7429-90-5	NOT > 40%	10.0 DUST 0.2 FUME	N/A	N/A	15.0 TOTAL DUST 5.0 RESPIRABLE FRACTION	N/A
PHOSPHORUS	7723-14-0	NOT > 15%	0.1	N/A	N/A	0.1	N/A
CALCIUM SILICATE	1344-95-2	NOT > 3%	10.0 DUST	N/A	N/A	15.0 TOTAL DUST 5.0 RESPIRABLE FRACTION	N/A

ADDITIONAL COMPONENT INFORMATION: ALL VALUES REFER TO 8-HOUR TIME WEIGHTED AVERAGE CONCENTRATIONS AND UNITS ARE mg/m³.

SECTION 3 HEALTH INFORMATION & PROTECTION

CARCINOGENICITY

NTP? NONE LISTED
IARC MONOGRAPHS? NO EVALUATION
OSHA REGULATED? NOT REGULATED

ROUTES OF ENTRY

EYES? N/A
INGESTION? N/A
INHALATION? YES
SKIN? N/A

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EMERGENCY OVERVIEW

N/A

HEALTH HAZARDS

ACUTE: BURNS FROM CONTACT WITH REACTION OR REACTION PRODUCTS, OR FROM HOT EQUIPMENT. DUST AND FUMES ARE IRRITANT TO EYES AND UPPER RESPIRATORY TRACT. DIRECT EYE CONTACT WITH "FLASH" OF LIGHT FROM REACTION CAN RESULT IN TEMPORARY BLINDNESS.

CHRONIC: PROLONGED INHALATION OF COPPER OXIDE DUST MAY CAUSE ULCERATION AND PERFORATION OF THE NASAL SEPTUM. LONG TERM EXPOSURE TO COPPER DUST MAY CAUSE ALLERGIC DERMATITIS.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: MAY CAUSE IRRITATION

INGESTION: MAY CAUSE DIARRHEA

INHALATION: MAY BLOCK BREATHING PASSAGES IF INHALED.

SKIN: MAY CAUSE IRRITATION

POTENTIAL HEALTH EFFECTS

EYES CONTACT: MAY CAUSE IRRITATION

INGESTION: MAY CAUSE DIARRHEA

INHALATION: MAY BLOCK BREATHING PASSAGES IF INHALED.

SKIN CONTACT: MAY IRRITATE THE SKIN AFTER PROLONGED PERIODS OF CONTACTS.

FIRST AID MEASURES

STANDARD TREATMENT FOR BURNS IN EVENT OF CONTACT WITH MOLTEN METAL, SLAG, OR HOT EQUIPMENT. FOR INHALATION OF DUST, REMOVE FROM EXPOSURE, PROVIDE FRESH AIR, FLUSH EYES WITH WATER, CONSULT PHYSICIAN.

EYES CONTACT: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES OR UNTIL ALL RESIDUAL MATERIAL IS DISLODGED OR GONE. IF IRRITATION OR REDNESS PERSISTS, SEEK MEDICAL ATTENTION IMMEDIATELY.

INGESTION: DRINK PLENTY OF WATER. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.

INHALATION: REMOVE FROM AREA TO FRESH AIR. IF SYMPTOMATIC, SEEK MEDICAL ATTENTION.

SKIN CONTACT: WASH EXPOSED SKIN AREAS WITH SOAP AND WATER. IF REDNESS OR IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE

WORKPLACE EXPOSURE CONTROLS

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ENGINEERING / VENTILATION CONTROLS

LOCAL MECHANICAL EXHAUST

PERSONAL PROTECTION

EYE PROTECTION: SAFETY GLASSES RECOMMENDED AND CAUTION TO USER TO AVOID DIRECT EYE CONTACT WITH "FLASH" OF LIGHT FROM REACTION.

HAND PROTECTION: PROTECTIVE GLOVES RECOMMENDED FOR HANDLING HOT MATERIAL.

RESPIRATORY PROTECTION: USE OF NIOSH APPROVED RESPIRATOR FRO DUST AND METAL FUMES IN LIEU OF LOCAL EXHAUST.

SKIN PROTECTION: GLOVES, APRON AND/OR LONG SLEEVE CLOTHING TO PROTECT THE SKIN.

VENTILATION: LOCAL EXHAUST MAY BE NECESSARY IF USED IN CONFINED SPACE OR WHERE TLV IS EXCEEDED. EXHAUST SYSTEM MUST BE SPECIFICALLY APPROVED FOR REACTIVE FLAMMABLE DUST (NFPA #77).

WORK/HYGIENIC:

SECTION 4 FIRE & EXPLOSION HAZARDS

EXPLOSION DATA: NOT APPLICABLE

EXPLOSIVE PROPERTY: LEL: N/E UEL: N/E

EXTINGUISHING MEDIA: NONE

GENERAL FIRE HAZARDS:

FIRE FIGHTING: HALOGENATED EXTINGUISHING AGENTS OR WATER SHOULD NOT BE USED.

LET THE FIRE EXTINGUISH ITSELF. USE SELF-CONTAINED BREATHING APPARATUS IN PRESSURE DEMAND MODE.

FLAMMABILITY CLASSIFICATION:

FLASH POINT: SELF-IGNITES ABOVE 842° F (450° C, INDIRECT HEATING).

UNUSUAL FIRE AND EXPLOSION HAZARDS: STARTING MATERIAL DUST MAY BE IGNITED BY STATIC CHARGE AND BURNS AT EXTREMELY HIGH TEMPERATURE. HIGH TEMPERATURE REACTION WILL OCCUR IF HEATED ABOVE IGNITION (FLASH POINT) TEMPERATURE, GENERATING MOLTEN METAL, SLAG AND DENSE, DUSTY SMOKE. VOLATILE, COMBUSTIBLE DECOMPOSITION PRODUCTS PRODUCED FROM PLASTIC PACKAGING.

HAZARDOUS COMBUSTION PRODUCTS: NONE

SECTION 5 SPILL CONTROL MEASURES

CONTAINMENT PROCEDURES:

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CLEAN-UP PROCEDURES: ALL UNUSED, SPILLED MATERIAL MAY BE SWEEPED UP FOR DISPOSAL USING SOFT, DRY SPONGE OR SOFT NATURAL FIBER BRUSH, AND NON-SPARKING CONDUCTIVE SCOOP. SYNTHETIC FIBER BRISTLE AND PLASTIC OR OTHER NON-CONDUCTIVE SCOOP SHOULD **NOT** BE USED. AVOID ACTIONS THAT WOULD CREATE DUST LADEN CLOUD OR CAUSE POWDER TO DISPERSE IN AIR.

DISPOSAL: DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION 6 HANDLING & STORAGE

GENERAL: MATERIAL SHOULD BE KEPT DRY AND STORED IN "NO SMOKING OR OPEN FLAME" AREA, RESTRICTION TO AUTHORIZED PERSONNEL IS RECOMMENDED. MATERIALS ARE NOT SUBJECT TO ROUGH HANDLING OR PHYSICAL DAMAGE NOR EXCESSIVE OR PROLONGED VIBRATION. MATERIAL MUST BE STORED UNDER SHELTER TO PROTECT BOXES FROM THE ELEMENTS AND RAISED TO PROTECT THEM FROM DAMPNESS OR SURFACE WATER.

A PERSONAL SAFETY HAZARD EXISTS WHEN MOISTURE OR GAS PRODUCING CONTAMINANTS COME INTO CONTACT WITH PRODUCTS OF EXOTHERMIC REACTION. SEE THE SAFETY INFORMATION ON THE INSTRUCTION SHEET PACKAGED WITH THE PRODUCT. THE STORAGE OR SHELF LIFE OF ANY FURSEWELD[®] STARTING MATERIAL CAN BE CONSIDERED AS "INDEFINITE" AS LONG AS THESE CONDITIONS OF STORAGE ARE FOLLOWED.

LABELING:

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE: GRANULAR PARTICLES	AUTO-IGNITION TEMPERATURE: 842° F (450° C)
BOILING POINT: N/A	COLOR: GREY-BLACK
FLAMMABILITY: N/A	EVAPORATIVE RATE: N/A
ODOR: ODORLESS	FREEZING POINT: N/A
PERCENT, VOLATILE BY VOLUME: N/A	MELTING POINT: 2000° F (1093° C)
PH: N/A	OXIDIZING PROPERTIES: N/A
SOLUBILITY IN WATER 68°F (20° C): INSOLUBLE	PERCENT, SOLIDS BY WEIGHT: 100
PHYSICAL STATE:	
SOFTENING POINT (FINISH): N/A	SOFTENING POINT (BASE METAL): N/A
VAPOR DENSITY (AIR = 1): N/A	SOLUBILITY IN ORGANIC SOLVENT: N/A
VISCOSITY: N/A	SPECIFIC GRAVITY (H₂O = 1): 4.2
VAPOR PRESSURE (mm Hg): N/A	VOC CONTENT (lbs/gal): N/A

SECTION 8 REACTIVITY DATA

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CHEMICAL STABILITY: STABLE

CONDITIONS TO AVOID: AVOID TEMPERATURES ABOVE IGNITION.

INCOMPATIBLE

MATERIALS: WILL REACT WITH MOISTURE, MINERAL ACIDS, HALOGENATED COMPOUNDS, AND STRONG ALKALIS. MATERIALS CAPABLE OF CAUSING SPARKS OR ACCUMULATING STRONG STATIC CHARGE SHOULD **NOT** BE USED.

HAZARDOUS

DECOMPOSITION PRODUCTS: NONE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT)

PROPER SHIPPING

NAME: FLAMMABLE SOLID, INORGANIC, N.O.S.

HAZARD CLASS: 4.1

UN#: UN 3178

PG: PG II

ERG:

HAZARDOUS LABELS: FLAMMABLE SOLID

ADDITIONAL

INFORMATION: SHIPPED IN EXCEPTED QUANTITIES IN COMPLIANCE WITH D.O.T. REGULATIONS.

I.A.T.A. CLASSIFICATION

PROPER SHIPPING

NAME: FLAMMABLE SOLID, INORGANIC, N.O.S.

HAZARD CLASS: 4.1

UN#: UN 3178

PG: PG II

ERG:

HAZARDOUS LABELS: FLAMMABLE SOLID

ADDITIONAL

INFORMATION: SHIPPED IN EXCEPTED QUANTITIES IN COMPLIANCE WITH I.A.T.A. REGULATIONS.

U.S. FEDERAL REGULATIONS

TSCA: ALL COMPONENTS ARE INCLUDED IN THE EPA TOXIC SUBSTANCES CONTROL ACT (TSCA) CHEMICAL SUBSTANCE INVENTORY.

CERCLA: THE PRODUCT IS **NOT** CLASSIFIED AS A HAZARDOUS SUBSTANCE UNDER REGULATIONS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA), 40 CFR §302.

RCRA HAZARD CLASS: THE PRODUCT IS **NOT** CLASSIFIED AS A HAZARDOUS WASTE UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT, OR ITS REGULATIONS, 40 CFR §261 et seq.

CLEAN AIR ACT: THE PRODUCT IS NOT PROCESSED WITH OR DOES NOT CONTAIN ANY CLASS I OR CLASS II OZONE DEPLETING SUBSTANCES.

SARA TITLE III INFORMATION

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SECTION 302: REQUIRES EMERGENCY PLANNING BASED ON *THRESHOLD PLANNING QUANTITIES* (TPQs), AND RELEASE REPORTING BASED ON *REPORTABLE QUANTITIES* (RQs) OF *EXTREMELY HAZARDOUS SUBSTANCES* (EHS) LISTED IN APPENDIX A OF CFR 355. THERE ARE NO COMPONENTS OF THIS MATERIAL WITH KNOWN CAS NUMBERS WHICH ARE ON THE EHS LIST.

SECTION 311 / 312: THE FOLLOWING COMPONENT(S) OF THIS PRODUCT IS SUBJECT TO THIS REQUIREMENT: *NONE*

SECTION 313: THE FOLLOWING COMPONENT(S) OF THIS PRODUCT IS SUBJECT TO THIS REQUIREMENT:

<u>HAZARDOUS COMPONENT(s)</u>	<u>CAS #</u>	<u>% BY WT</u>
COPPER COMPOUND	N100	NOT > 55%
FORM R REPORTING REQUIRED FOR 1.0% <i>DE MINIMIS</i> CONCENTRATION.		
ALUMINUM	7429-90-5	NOT > 40%
FORM R REPORTING REQUIRED FOR 1.0% <i>DE MINIMIS</i> CONCENTRATION (ONLY FUME OR DUST).		
PHOSPHORUS	7723-14-0	NOT > 15%
FORM R REPORTING REQUIRED FOR 1.0% <i>DE MINIMIS</i> CONCENTRATION.		

STATE REGULATIONS / RIGHT-TO-KNOW

CALIFORNIA PROPOSITION 65 INFORMATION:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCE(S) KNOWN TO BE ON THE CA PROP. 65 LIST: *NONE*

INTERNATIONAL

WHMIS (CANADA): THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE CONTROLLED PRODUCTS REGULATIONS AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR

THE CHEMICAL(S) LISTED ARE CONSIDERED CONTROLLED PRODUCT(S): *NONE*

LABELS: CANADIAN LABEL CLASSIFICATION REQUIRED ON CONTAINER(S): *NONE*

SECTION 10 NOTES

TOXICOLOGICAL INFORMATION

NONE

ECOLOGICAL INFORMATION

NO DATA AVAILABLE

HAZARD RATING SYSTEM

	HMIS	NFPA	KEY
HEALTH	1	1	4 = SEVERE
FLAMMABILITY	1	1	3 = SERIOUS
REACTIVITY	1	1	2 = MODERATE
			1 = SLIGHT
			0 = MINIMAL

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REVISION SUMMARY

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SUPERCEDES ISSUE DATE

May 17, 2007

SECTION 11 OTHER INFORMATION

ABBREVIATIONS

N/E: NOT ESTABLISHED
N/A: NOT AVAILABLE

OTHER

R PHRASE: N/A

S PHRASE: N/A

T&B CATALOG NOS:

45P10	15BKB	115BKB	
65P10	25BKB	150BKB	
90P10	32BKB	200BKB	
115P10	45BKB	250BKB	
150P10	65BKB		
200P10	75BKB	FWDEMOKIT	
250P10	90BKB	FWDEMOKIT USA	

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