

MATERIAL SAFETY DATA SHEET

 S140
 DATE: 1-9-87

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

SECTION I

MANUFACTURER'S NAME

Ceramic Color & Chemical Mfg. Co.

EMERGENCY TELEPHONE NO.

412-846-4000

CHEMICAL NAME AND SYNONYMS

Sodium Tetraborate Anhydrous

TRADE NAME AND SYNONYMS

Anhydrous Borax (Anhydrous)

CHEMICAL FAMILY

Sodium Borate

FORMULA

Na₂B₄O₇

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)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)		SPECIFIC GRAVITY (H ₂ O = 1)	2.4
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)	None
VAPOR DENSITY (AIR = 1)		EVAPORATION RATE (— = 1)	
SOLUBILITY IN WATER	Moderate		
APPEARANCE AND ODOR	White, odorless solid		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	None: Material has fire retardant properties		
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE ~~10mg/M³~~ 10mg/M³ for B₂O₃ *(Amer. Conf. of Gov't Hygienists, 3rd Edition, 197

EFFECTS OF OVEREXPOSURE
Moderate skin and eye irritant

EMERGENCY AND FIRST AID PROCEDURES
Wash with water

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Keep dry: slowly absorbs atmospheric or free water reverting to hydrated form
	STABLE	xx	

INCOMPATIBILITY (Materials to avoid)
None

HAZARDOUS DECOMPOSITION PRODUCTS
None

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID Keep dry
	WILL NOT OCCUR	XX	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Standard disposal procedures - presents no health hazard

WASTE DISPOSAL METHOD
Standard disposal procedures - presents no health hazard

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) no special protection required

VENTILATION	LOCAL EXHAUST Normal	SPECIAL
	MECHANICAL (General)	OTHER

PROTECTIVE GLOVES Not needed	EYE PROTECTION Avoid eye contact
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OTHER PROTECTIVE EQUIPMENT
None

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
None needed

OTHER PRECAUTIONS
None needed

* Theoretical B₂O₃ value in Anhydrous Borax: 69.2% B₂O₃ product not listed in the American Conference of Gov't Hygienists.