

# MATERIAL SAFETY DATA SHEET

Page 1 of 2

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

THE OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200 REQUIRES THAT THE INFORMATION CONTAINED ON THIS SHEET BE MADE AVAILABLE TO YOUR WORKERS.

INSTRUCT YOUR WORKERS TO HANDLE THIS PRODUCT PROPERLY.

<b>CHEMICAL NAME:</b>	MANGANESE DIOXIDE PASTE		
<b>SYNONYMS:</b>	MnO <sub>2</sub>	<b>CHEMICAL FAMILY:</b>	Manganese
<b>FORMULA:</b>	Proprietary	<b>MOLECULAR WEIGHT:</b>	N/A
<b>TRADE NAME AND SYNONYMS:</b>	<b>TWI-500™ SELF/LEVELING CURING AGENT</b>		

## I. PHYSICAL DATA

<b>BOILING POINT: (760mm. Hg)</b>	N/A	<b>FREEZING POINT:</b>	N/A
<b>SPECIFIC GRAVITY: (H<sub>2</sub>O=1)</b>	1.995	<b>VAPOR PRESSURE AT 20°C.:</b>	N/A
<b>VAPOR DENSITY: (air=1)</b>	N/A	<b>SOLUBILITY IN WATER (% by wt):</b>	INSOLUBLE
<b>PERCENT VOLATILES BY VOLUME:</b>	0%	<b>EVAPORATION RATE (Butyl Acetate=1):</b>	N/A
<b>APPEARANCE AND ODOR:</b>	BLACK PASTE, SLIGHT ODOR		

## II. HAZARDOUS INGREDIENTS

MATERIAL	PERCENTAGE	TLV (Units)
MANGANESE DIOXIDE	66%	5 mg/m <sup>3</sup> (OSHA)*

\*Exposure limit based upon dust particles. TWI-500 S/L are *wetted-out* to a paste, thus airborne particles will not result from normal usage.

## III. FIRE AND EXPLOSION HAZARD DATA

<b>FLASH POINT (test method):</b>	Non-Flammable	<b>AUTO-IGNITION TEMPERATURE:</b>	N/A
<b>FLAMMABLE LIMITS IN AIR, % by volume:</b>	None		
<b>EXTINGUISHING MEDIA:</b>	DRY CHEMICAL, CARBON DIOXIDE, FOAM		
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	None		
<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	None		

**EMERGENCY PHONE NUMBER:****USA: 818-500-1921**

Prepared for TradeWinds International Inc., Updated: APRIL 2000

While we believe that the data contained herein is factual, and the opinions expressed are those of qualified experts regarding the results of tests conducted, the data is not to be taken as a guarantee of performance, a warranty or representation, either expressed or implied for which we assume legal responsibility. The manufacturer, distributors and agents accept no responsibility for the misuse of this product. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials, or in any process. Such information, to the best of our knowledge and belief, is accurate and reliable, as of the date compiled. It are offered solely for client consideration and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty, that any such use is free of patent infringement, and are not recommendations to infringe on any patent printed in the USA. Any use of this data and information, must be determined, by the user, to be in accordance with applicable Federal, State and local laws & regulations. Neither TradeWinds International Inc., nor their distributors or agents, will be liable, under any circumstances or conditions, either expressed or implied, for damages in excess of the purchase price of this product.

## IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE (TLV):	Negligible
EFFECTS OF OVEREXPOSURE:	Not Known.
EMERGENCY AND FIRST AID PROCEDURES:	<u>EYES:</u> FLUSH WITH CLEAN WATER FOR 20 MINUTES. <u>SKIN:</u> WASH SKIN WITH SOAP & WATER. <i>IN ALL EVENTS</i> <u>INHALATION:</u> BREATHE FRESH AIR. <u>CONTACT PHYSICIAN IMMEDIATELY.</u> <u>INGESTION:</u> DRINK WATER. INDUCE VOMITING.

## V. REACTIVITY DATA

STABILITY: <input type="checkbox"/> UNSTABLE <input checked="" type="checkbox"/> STABLE	CONDITIONS TO AVOID:	Excessive Heat and Open Flame.
INCOMPATIBILITY (MATERIALS TO AVOID):	Hydrogen Sulfide, Reducing Agents and Combustibles.	
HAZARDOUS DECOMPOSITION PRODUCTS:	None.	
HAZARDOUS POLYMERIZATION: <input type="checkbox"/> MAY OCCUR <input checked="" type="checkbox"/> WILL NOT OCCUR	CONDITIONS TO AVOID:	Will Not Polymerize.

## VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Collect Spill in Disposable Container. Use <b>ABZORB-IT™</b> Spill Absorbent to Recover Residual Material. Consolidate and Remove to Safe Area. Wash Down Area With Sufficient Water.
WASTE DISPOSAL METHOD:	DISPOSE IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

## VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type)	USE ADEQUATE VENTILATION. OBSERVE OSHA REGULATIONS.		
VENTILATION	LOCAL EXHAUST	YES	SPECIAL:
	MECHANICAL (general)	If Available.	OTHER:
PROTECTIVE GLOVES	YES: Rubber	EYE PROTECTION: GOGGLES	
OTHER PROTECTIVE EQUIPMENT	Protect Street Clothing with Washable or Disposable Covers.		

## VIII. SPECIAL PRECAUTIONS

PRECAUTIONARY LABELING	None.
OTHER HANDLING AND STORAGE CONDITIONS	Keep containers tightly sealed. Store in cool, dry place. Avoid heat and open flame.

**TradeWinds International, Inc.**, 1374½ E. Colorado Street, Glendale CA 91205 © v: 818-500-1921® f: 818-500-3973