NAME OF PRODUCT

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SYNONYMS:	5 MHz alloy coated Quartz Crystal Sensor
PRODUCT CODES:	TANO6IA
MANUFACTURER: DIVISION:	Phillip Technologies
ADDRESS:	2003 Perimeter Rd, Suite E, Greenville, South Carolina 29605-5276
EMERGENCY PHONE CHEMTREC PHONE: OTHER CALLS: FAX PHONE:	864.277.1560
CHEMICAL NAME: CHEMICAL FAMILY: CHEMICAL FORMULA	Quartz with thin alloy electrode
PRODUCT USE: PREPARED BY:	Thin Film Vacuum Process Control

SECTION 1 NOTES: This is a solid state sensor comprised of single crystal quartz with a thin film metallic alloy electrode

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

CAS NO.	<u>% WT</u>	<u>% VOL</u>	SARA 313 REPORTABLE
	ppm	mg/m3	
OSHA PEL-TWA:	N/A	N/A	
OSHA PEL STEL :	N/A	N/A	
OSHA PEL CEILING:	N/A	N/A	
ACGIH TLV-TWA:	N/A	N/A	
ACGIH TLV STEL:	N/A	N/A	
ACGIH TLV CEILING:	N/A	N/A	

SECTION 2 NOTES: No toxicity with this product.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This is a quartz product. A disc 0.010" thick. The only hazard would be if one actually tried to eat one since they are glass like.

ROUTES OF ENTRY: Nor

POTENTIAL HEALTH EFFECTS EYES: None

SKIN: Could cut if broken and pushed against skin

INGESTION: Could scratch throat if ingested

INHALATION: None

ACUTE HEALTH HAZARDS: None

CHRONIC HEALTH HAZARDS: None

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MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:None

CARCINOGENI OSHA: OTHER:	CITY Unknown	ACGIH: U	Jnknown	NTP:	Unknown	IARC:	Unknown
SECTION 3 NO	TES:						
SECTION 4: FI	RST AID MEASURE	S					
EYES: If broke	EYES: If broken pieces enter eye, wash with water, until clear.						
SKIN: If cut, wa	ish and treat as nor	mal cut					
INGESTION: Se	e a doctor						
INHALATION:							
	(SICIANS OR FIRS) glass ingestion or e		DERS:				
SECTION 4 NO	TES:						
SECTION 5: FIF	RE-FIGHTING MEAS	URES					
FLAMMABLE L (% BY VOLU	IMITS IN AIR, UPPE ME) LOWE						
FLASH POINT: F: None C: None METHOD USEE):						
AUTOIGNITION F: None C: None	I TEMPERATURE:						
NFPA HAZARD HEALTH: OTHER: N/	CLASSIFICATION N/A A	FLAMMAB	BILITY: N/A	REAC	TIVITY: N/A		
HMIS HAZARD HEALTH: PROTECTI	CLASSIFICATION N/A ON:N/A	FLAMMAB	SILITY: N/A	REACT	TVITY: N/A		
EXTINGUISHIN	G MEDIA: N/A						
SPECIAL FIRE FIGHTING PROCEDURES:N/A							
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A							
HAZARDOUS DECOMPOSITION PRODUCTS: N/A							
SECTION 5 NO	TES:						

SECTION 6: ACCIDENTAL RELEASE MEASURES

NAME OF PRODUCT ACCIDENTAL RELEASE MEASURES: N/A

SECTION 6 NOTES:

SECTION 7: HANDLING AND STORAGE HANDLING AND STORAGE: Store in a cool, dry place. Do not touch surface during handling (damages sensors) OTHER PRECAUTIONS: SECTION 7 NOTES: SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

SECTION 8. EXPOSORE CONTROLS/PERSONAL PROTEC

ENGINEERING CONTROLS: N/A

VENTILATION : N/A

RESPIRATORY PROTECTION: N/A

EYE PROTECTION:N/A

SKIN PROTECTION: Latex gloves or similar

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N/A

WORK HYGIENIC PRACTICES: N/A

EXPOSURE GUIDELINES: N/A

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Circular solid disk, silver color

ODOR: None

PHYSICAL STATE:

pH AS SUPPLIED: Neutral pH (Other): BOILING POINT: F: N/A C: N/A MELTING POINT: F: >2000 C: >2000 FREEZING POINT: F: N/A C: N/A VAPOR PRESSURE (mmHg): @ F: N/A C: N/A VAPOR DENSITY (AIR = 1):

NAME OF PRODUCT

F: N/A

C: N/a SPECIFIC GRAVITY (H2O = 1): 2.0 @ F: 70 C: 20 **EVAPORATION RATE:N/A**

BASIS (=1):

Q)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

SOLUBILITY IN WATER: Insoluble

PERCENT SOLIDS BY WEIGHT:100

PERCENT VOLATILE: BY WT/ BY VOL @ F: 0 C:0 VOLATILE ORGANIC COMPOUNDS (VOC):

WITH WATER: 0 LBS/GAL WITHOUT WATER: 0 LBS/GAL

MOLECULAR WEIGHT: NA (SiO2 is a crystal) VISCOSITY: @

F: N/A C:NAa

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

	<u>STABLE</u>	
STABILITY:	x	
CONDITIONS TO AVOID (STABILITY):	None	
INCOMPATIBILITY (MATERIAL TO AV	/OID): None	
HAZARDOUS DECOMPOSITION OR E	BY-PRODUCTS:	None
HAZARDOUS POLYMERIZATION:	None	
CONDITIONS TO AVOID (POLYMERIZ	ATION):	
SECTION 10 NOTES:		
SECTION 11: TOXICOLOGICAL INFO	RMATION	
TOXICOLOGICAL INFORMATION:	N/A Non Toxic	

SECTION 11 NOTES:

UNSTABLE

NAME OF PRODUCT

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	N/A	Quartz is pervasive in nature			
SECTION 12 NOTES:					
SECTION 13: DISPOSAL CONSIDERATIONS					
WASTE DISPOSAL METHOD: General Waste Stream					
RCRA HAZARD CLASS: N/A					
SECTION 13: DISPOSAL CONSIDERATIONS (con't)					
SECTION 13 NOTES:None					
SECTION 14: TRANSPORT INFORM	MATION				
U.S. DEPARTMENT OF TRANSPOR PROPER SHIPPING NAME: Qui		als			

U.S. DEPARTMENT OF TRANSPORTATION PROPER SHIPPING NAME: Quartz Crysta HAZARD CLASS: ID NUMBER: PACKING GROUP: LABEL STATEMENT:

WATER TRANSPORTATION PROPER SHIPPING NAME: Quartz Crystals HAZARD CLASS: ID NUMBER: PACKING GROUP: LABEL STATEMENTS:

AIR TRANSPORTATION PROPER SHIPPING NAME: Quartz Crystals HAZARD CLASS: ID NUMBER: PACKING GROUP: LABEL STATEMENTS:

OTHER AGENCIES:

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS TSCA (TOXIC SUBSTANCE CONTROL ACT): N/A

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): N/A

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):N/A

311/312 HAZARD CATEGORIES:N/A

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313 REPORTABLE INGREDIENTS:N/A

STATE REGULATIONS:

INTERNATIONAL REGULATIONS:

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

OTHER INFORMATION: None

PREPARATION INFORMATION:

DISCLAIMER: