NAME OF PRODUCT MSDS DATE: 02/12

**FILE NO.:TAN05IG** 

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION** 

PRODUCT NAME: 5 MHz Gold coated Quartz Crystal Sensor

SYNONYMS:

PRODUCT CODES: TAN05IG

MANUFACTURER: **Phillip Technologies** 

**DIVISION:** 

ADDRESS: 2003 Perimeter Rd, Suite E, Greenville, South Carolina 29605-5276

**EMERGENCY PHONE: 864.277.1560** 

CHEMTREC PHONE: OTHER CALLS: **FAX PHONE:** 

CHEMICAL NAME: Quartz with thin gold electrode

**CHEMICAL FAMILY: CHEMICAL FORMULA:** 

PRODUCT USE: **Thin Film Vacuum Process Control** 

PREPARED BY:

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

**SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS** 

**INGREDIENT:** 

CAS NO. <u>% WT</u> % VOL **SARA 313 REPORTABLE** 

	<u>ppm</u>	<u>mg/m3</u>
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:** None

POTENTIAL HEALTH EFFECTS EYES:

> 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** 

NAME OF PRODUCT

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:None

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CARCINOGENICITY

OSHA: Unknown ACGIH: Unknown NTP: Unknown IARC: Unknown

OTHER:

**SECTION 3 NOTES:** 

**SECTION 4: FIRST AID MEASURES** 

EYES: If broken pieces enter eye, wash with water, until clear.

SKIN: If cut, wash and treat as normal cut

**INGESTION:** See a doctor

INHALATION:

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:

Treat as a glass ingestion or exposure

**SECTION 4 NOTES:** 

**SECTION 5: FIRE-FIGHTING MEASURES** 

FLAMMABLE LIMITS IN AIR, UPPER: None (% BY VOLUME) LOWER: None

FLASH POINT:

F: None

C: None

**METHOD USED:** 

**AUTOIGNITION TEMPERATURE:** 

F: None

C: None

NFPA HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A

OTHER: N/A

HMIS HAZARD CLASSIFICATION

HEALTH: N/A FLAMMABILITY: N/A REACTIVITY: N/A

PROTECTION:N/A

**EXTINGUISHING MEDIA: N/A** 

SPECIAL FIRE FIGHTING PROCEDURES:N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

**SECTION 5 NOTES:** 

**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** 

**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, gold color

**ODOR: None** 

PHYSICAL STATE:

pH AS SUPPLIED: Neutral

pH (Other): BOILING POINT:

OILING POINT.

F: N/A

C: N/A

MELTING POINT:

F: >2000

C: >2000

FREEZING POINT:

F: N/A C: N/A

VAPOR PRESSURE (mmHg):

(a)

F: N/A

C: N/A

VAPOR DENSITY (AIR = 1):

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NAME OF PRODUCT

@

F: N/A C: N/a

SPECIFIC GRAVITY (H2O = 1): 2.0

(a

F: 70 C: 20

**EVAPORATION RATE:N/A** 

**BASIS** (=1):

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> <u>UNSTABLE</u>

STABILITY: X

CONDITIONS TO AVOID (STABILITY): None

INCOMPATIBILITY (MATERIAL TO AVOID): None

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None

HAZARDOUS POLYMERIZATION: None

**CONDITIONS TO AVOID (POLYMERIZATION):** 

SECTION 10 NOTES:

**SECTION 11: TOXICOLOGICAL INFORMATION** 

TOXICOLOGICAL INFORMATION: N/A Non Toxic

SECTION 11 NOTES:

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**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:

SECTION 13: DISPOSAL CONSIDERATIONS (con't)

**SECTION 13 NOTES:None** 

**SECTION 14: TRANSPORT INFORMATION** 

**U.S. DEPARTMENT OF TRANSPORTATION** PROPER SHIPPING NAME: Quartz Crystals

**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

NAME OF PRODUCT

313 REPORTABLE INGREDIENTS:N/A

STATE REGULATIONS:

**INTERNATIONAL REGULATIONS:** 

**SECTION 15 NOTES:** 

**SECTION 16: OTHER INFORMATION** 

OTHER INFORMATION: None

PREPARATION INFORMATION:

DISCLAIMER:

**FILE NO.:TAN05IG** 

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