SAFETY DATA SHEET

Product: Tin Oxide
Revision Date: 06/23/2015

SECTION 1 - IDENTIFICATION

Product Identifier

Product Name: Tin Oxide
Product Code: 360-17150, 360-17200, 360-17250, & 360-17300

Recommended Use of the Chemical and Restrictions on Use

Recommended Use: Used in dentistry and, in combination with water, to make a precious metal polishing paste.
Restrictions on Use: None identified.

Details of the Supplier

Manufactured for: Integra York PA, Inc.
589 Davies Dr.
York, PA 17402 USA
1-866-854-8300

Emergency Phone Number

24-Hour Number: 1-800-535-5053
International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Tin Oxide is not classified as a hazardous substance for carriage or supply.

Label Elements

Hazard Symbols(s): Not Applicable.
Signal Word(s): Not Applicable.
Hazard Statement(s): Not Applicable.
Precautionary Statements: Not Applicable.

Other Hazards

Chronic exposure to tin dioxide dust may cause Stannosis (pneumoconiosis)

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Common Name</th>
<th>CAS Number</th>
<th>Concentration, %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin Oxide</td>
<td>18282-10-5</td>
<td>100%</td>
</tr>
</tbody>
</table>

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SECTION 4 – FIRST AID MEASURES

Emergency and First Aid Procedures

Skin Exposure:
The substance is non-irritating.

Inhalation:
Remove from exposure to fresh air.

Eye contact:
Flush eyes with copious amounts of water.

Ingestion:
In case of persistent symptoms consult doctor.

Medical conditions possibly aggravated by exposure:
May be irritating to eyes. Chronic exposure to tin dioxide dust may case Stannosis (pneumoconiosis).

Notes to physician:
No additional requirements.

SECTION 5 – FIRE-FIGHTING MEASURES

Extinguishing media:
Suitable extinguishing media: As appropriate to the surrounding environment.
Unsuitable extinguishing media: None

Specific hazards arising from the chemical:
None known.

Special protective equipment and precautions for fire-fighters:
No special measures required.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Do not breathe dust. Wear appropriate personal protective equipment.

Methods and material for containment and cleaning up:
Vacuum cleaner or wet-sweeping. Neutralizing chemicals not required.

Environmental Precautions:
No special measures required.

Reference to other sections:
Refer to sections 8 and 13 for exposure controls/personal protection and disposal considerations.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling:
Avoid causing dust. Use local exhaust ventilation or adequate respiratory protective equipment.

Conditions for safe storage, including any incompatibilities:
No special requirements.
SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH REL &amp; IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tin Oxide</td>
<td>TWA: 2 mg/m³</td>
<td>Not Listed</td>
<td>REL: 2 mg/m³ TWA IDLH: 100 mg/m³</td>
</tr>
</tbody>
</table>

Legend:
- ACGIH – American Conference of Governmental Industrial Hygienists
- OSHA – Occupational Safety and Health Administration
- NIOSH REL – The National Institute for Occupational Safety and Health Recommended Exposure Limit
- NIOSH IDLH – The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Appropriate engineering controls:
Use local exhaust ventilation or adequate respiratory protective equipment to maintain exposure below Workplace Exposure Limits.

Individual protective measures, such as personal protective equipment:
None identified.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:
White powder

Odor:
Odorless

Odor Threshold:
Not determined

pH:
Neutral (100g/l slurry)

Melting Point / Freezing Point Range:
Decomposes in air at 1613°C

Initial Boiling Point and Boiling Range:
No information available.

Flash Point:
No information available.

Evaporation Rate:
No information available.

Flammability (solid, gas):
No information available.

Upper/Lower Flammability or Explosive Limits:
No information available.

Vapor Pressure:
No information available.
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Vapor Density:
No information available.

Relative Density:
6.936

Water Solubility:
Practically insoluble (below detection limit)

Partition Coefficient (n-octanol/water):
No information available.

Auto-ignition temperature:
No information available.

Decomposition temperature:
No information available.

Percent Volatiles by Volume:
No information available.

Viscosity:
No information available.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity:
Stable under normal conditions of storage and use.

Chemical stability:
Stable under normal conditions of storage and use.

Possibility of hazardous reactions:
None known.

Conditions to avoid:
None known.

Incompatible Materials:
None known.

Hazardous decomposition products:
None known.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION (ANIMAL TOXICITY DATA)

Acute toxicity, Oral:
Non-toxic – LD₅₀ greater than 2.0g/kg bodyweight

Acute toxicity, Inhalation:
Non-toxic – LC₅₀ greater than 2.04mg/l (maximum test concentration attainable)

Chronic exposure to tin dioxide dust may cause Stannosis (pneumoconiosis)

Skin corrosion / irritation:
Non-irritating

Skin sensitization:
Non-sensitizing

Eye contact:
Causes irritation to eyes
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SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicological Information:
Insoluble in water, stable and inert under normal environmental conditions.

Toxicity:
Invertebrates (Daphnia magna) 24 h EC₅₀ > 0.1 g/l
48 h EC₅₀ > 0.1 g/l
NOEC > 0.1 g/l

Single cell Green Alga (Desmodesmus subspicatus) 72 h EC₅₀ > 100 mg/l
72 h NOEC 9.77 mg/l
72 h LOEC 31.3 mg/l

Fish (Oncorhynchus mykiss) 96 h LC₅₀ > 100 mg/l

Microorganisms (Activated sludge) 3 h EC₅₀ > 1000 mg/l

Persistence and degradability:
No data

Bioaccumulative potential:
No data

Mobility in Soil:
No data

Results of PBT and vPvB assessment:
No data, assessment not required

Other adverse effects:
None known

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable municipal, provincial, state, national or international regulations.

SECTION 14 – TRANSPORT INFORMATION

UN Number:
Not classified as dangerous goods

UN proper shipping name:
Not applicable

Transport hazard class(es):
Not applicable

Packing group:
Not applicable

Environmental hazards:
None known

Special precautions for user:
None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable
SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:
Not applicable

Chemical Safety Assessment
Not required, substance is not classified.

SECTION 16 – OTHER INFORMATION

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