

SAFETY DATA SHEET

Conforms with OSHA Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012



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

Common Name

Tin Oxide

CAS Number

18282-10-5

Concentration, %

100%

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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 cause 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.

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SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits:

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH REL & IDLH |
|---------------|--------------------------|------------|---|
| Tin Oxide | TWA: 2 mg/m ³ | Not Listed | REL: 2 mg/m ³ TWA IDLH: 100 mg/m ³ |

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 EC ₅₀ | > 0.1 g/l |
| | 48 h EC ₅₀ | > 0.1 g/l |
| | NOEC | > 0.1 g/l |
| Single cell Green Alga (Desmodesmus subspicatus) | 72 h EC ₅₀ | > 100 mg/l |
| | 72 h NOEC | 9.77 mg/l |
| | 72 h LOEC | 31.3 mg/l |
| Fish (Oncorhynchus mykiss) | 96 h LC ₅₀ | > 100 mg/l |
| Microorganisms (Activated sludge) | 3 h EC ₅₀ | > 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

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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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