



## MATERIAL SAFETY DATA SHEET

Ref: MSDS-011

Date: 17/12/2002

Issue: 2

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### TIN OXIDE (SnO<sub>2</sub>) HYDRATE SUSPENSION

#### **1. PRODUCT AND COMPANY INFORMATION**

- 1.1. Substance identification: Tin Oxide Hydrate suspension
- 1.2. Company identification: Keeling & Walker Limited,  
Whieldon Road,  
Stoke-on-Trent  
ST4 4JA, ENGLAND
- 1.3. Emergency contact number: +44 (0) 1782 744 136

#### **2. COMPOSITION / INFORMATION ON INGREDIENTS**

- 2.1. Hydrated tin oxide (SnO<sub>2</sub>.xH<sub>2</sub>O) in aqueous suspension
- 2.2. Synonyms: Metastannic acid, alphasannic acid, stannic oxide hydrate, beta stannic acid
- 2.3.
- |                     | CAS Number | EINECS No. |
|---------------------|------------|------------|
| Hydrated tin oxide: | 18282-10-5 | 2421590    |

Note: For regulatory purposes under TSCA and EINECS this material is considered to be a mixture of tin oxide (SnO<sub>2</sub>) and water. Therefore, the CAS Registry and EC Numbers used to identify this material are those for tin oxide. The commercial products are hydrated forms of tin oxide which may also be described by CAS RN 22650-91-5.

#### **3. HAZARDS IDENTIFICATION**

- 3.1. Tin (IV) oxide is not classified as a substance dangerous for carriage or supply.
- 3.2. Tin (IV) oxide is not hazardous to the environment.
- 3.3. No Risk or Safety phrases are assigned.
- 3.4. Inhalation: Chronic exposure to tin oxide dust may induce Stannosis (pneumoconiosis).

#### **4. FIRST AID MEASURES**

- 4.1. Inhalation: Remove from exposure to fresh air.
- 4.2. Ingestion: Drink plenty of water, seek medical attention.
- 4.3. Eye contact: Flush eyes with water, seek medical attention.
- 4.4. Skin contact: Remove contaminated clothing and wash affected area with soap and water.

**TIN OXIDE (SnO<sub>2</sub>) HYDRATE SUSPENSION****5. FIRE-FIGHTING MEASURES**

- 5.1. Suitable extinguishing media: Any.
- 5.2. Unsuitable extinguishing media: None.
- 5.3. Exposure hazards: None known.
- 5.4. Protective equipment for fire-fighters: No special measures required.

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1. Personal precautions: Avoid contact with skin, eyes and clothing. Wear suitable personal protective equipment.
- 6.2. Environmental precautions: Dispose of material to approved waste disposal site via authorised waste disposal contractor.
- 6.3. Method of clean-up: Absorb on sand or vermiculite, place in closed containers for disposal.

**7. HANDLING AND STORAGE**

- 7.1. Precautions during handling: Wear gloves and goggles and suitable impervious clothing.
- 7.2. Storage: Store in a sealed container. No special measures required.
- 7.3. Suitable packaging: Sealed polyethylene or glass containers.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- 8.1. Inhalation: Occupational Exposure Limits:  
Tin oxide (H<sub>2</sub>SnO<sub>3</sub>): 2mg m<sup>-3</sup> (as Sn) 8 hour TWA  
4mg m<sup>-3</sup> (as Sn) 15 mins STEL
- 8.2. Protective measures: Wear gloves, goggles or safety glasses and impervious clothing or overalls.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1. Appearance: White gelatinous liquid or suspension.
- 9.2. Odour: None.
- 9.3. Solubility in water: Infinitely dilutable.
- 9.4. pH: Approximately 4 - 7.
- 9.5. Flammability: Non-flammable.
- 9.6. Melting point: Not applicable.
- 9.7. Boiling point: No information.
- 9.8. Vapour pressure: No information.

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#### 10. STABILITY AND REACTIVITY

- 10.1. Conditions to avoid: None known.
- 10.2. Materials to avoid: None known.
- 10.3. Hazardous decomposition products: None known.

#### 11. TOXICOLOGICAL INFORMATION

- 11.1. Inhalation: Chronic exposure to tin oxide dust may cause Stannosis (pneumoconiosis).
- 11.2. Ingestion: Non-toxic (LD<sub>50</sub> greater than 2.0g/kg bodyweight).
- 11.3. Eye contact: May be irritating to the eyes.
- 11.4. Skin contact: May cause skin irritation if exposed for long periods.

#### 12. ECOLOGICAL INFORMATION

- 12.1. Environmental effect: Dispersible in water. Stable and inert under normal environmental conditions.

#### 13. DISPOSAL CONSIDERATIONS

- 13.1. Disposal of product: Approved waste disposal site (Refer to Federal, State and Local regulations).
- 13.2. Disposal of packaging: Landfill or incineration.

#### 14. TRANSPORT INFORMATION

- 14.1. Special precautions: None.

#### 15. REGULATORY INFORMATION

- 15.1. Risk Phrases: None assigned.
- 15.2. Safety Phrases: None assigned.
- 15.3. Classification Symbol: None assigned.

#### 16. OTHER INFORMATION

- 16.1. HMSO Publication: EH40 Occupational Exposure Limits.