



MATERIAL SAFETY DATA SHEET

Ref: MSDS-035

Date: 29/09/2005

Issue: 1

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ALPHASTANNIC ACID

1 PRODUCT AND COMPANY INFORMATION

- 1.1. Substance identification: ALPHASTANNIC ACID
- 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, chemical formula approximates to H_2SnO_3
- 2.2. Synonyms: tin oxide hydrate, orthostannic acid, tin hydroxide oxide,
hydrated tin oxide
- 2.3. Chemical Abstract Number: CAS 13472-47-4
European Inventory Number: EINECS 236-745-5

3 HAZARDS IDENTIFICATION

- 3.1. Alphastannic acid is not classified as a substance dangerous for carriage or supply
- 3.2. Alphastannic 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: In case of persistent symptoms seek medical attention
- 4.3. Eye contact: Flush eyes with copious amounts of water, if discomfort persists seek medical attention
- 4.4. Skin contact: Remove clothing and wash affected area with soap and water.

ALPHASTANNIC ACID**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: Use self-contained breathing apparatus

6 ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions: Do not breath dust. Avoid contact with skin, eyes and clothing. Wear dust mask, gloves and goggles
- 6.2. Environmental precautions: Dispose of material in accordance with applicable legislation
- 6.3. Neutralising chemicals: Not required
- 6.4. Method of clean-up: Vacuum cleaner or wet-sweeping. Do not generate dust. Place in sealed plastic bags for disposal

7 HANDLING AND STORAGE

- 7.1. Precautions during handling: Use local exhaust ventilation (or wear dust mask). Wear gloves and goggles
- 7.2. Storage: Store in a well ventilated, dry area
- 7.3. Suitable packaging: Polyethylene-lined sacks or casks

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1. Inhalation: Occupational Exposure Limits:
Tin oxide: 2mg m⁻³ (as Sn) 8 hour time weighted average (TWA)
4mg m⁻³ (as Sn) short term exposure limit (STEL)
- 8.2. Protective measures: Use local exhaust ventilation (or wear dust mask) to maintain exposure below the Occupational Exposure Limits given above. Wear gloves, goggles and overalls

ALPHASTANNIC ACID**9 PHYSICAL AND CHEMICAL PROPERTIES**

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| 9.1. | Appearance: | Creamy-white granules |
| 9.2. | Odour: | No odour |
| 9.3. | Specific gravity: | Approximately 5.0 to 5.4 |
| 9.4. | Solubility in water: | Practically insoluble |
| 9.5. | Flammability: | Non-flammable |
| 9.6. | Melting point: | Approximately 1630°C |
| 9.7. | Boiling point: | Sublimates between 1800 and 1900°C |
| 9.8. | Vapour pressure: | No information |

10 STABILITY AND REACTIVITY

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| 10.1 | Conditions to avoid: | None known |
| 10.2. | Materials to avoid: | Substances which may lead to the formation of volatile hydrides or halides of organic tin compounds |
| 10.3. | Hazardous decomposition products: | None known |

11 TOXICOLOGICAL INFORMATION

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| 11.1. | Inhalation: | Chronic exposure to tin oxide dust may cause Stannosis (pneumoconiosis) |
| 11.2. | Ingestion: | Non-toxic (LD ₅₀ greater than 2.0g/kg bodyweight) |
| 11.3. | Skin contact: | May cause dermatitis or similar skin irritation during prolonged exposure.
This may increase in hot or humid weather |
| 11.4. | Eye contact: | May be irritating to the eyes |

12 ECOLOGICAL INFORMATION

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| 12.1 | Environmental effect: | Practically insoluble in water, stable and inert under normal environmental conditions |
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ALPHASTANNIC ACID**13 DISPOSAL CONSIDERATIONS**

- 13.1. Disposal of product: Dispose of material in accordance with applicable legislation
- 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

The information given is based on our present state of knowledge and does not represent a guarantee of any product characteristics