



MATERIAL SAFETY DATA SHEET

Ref: MSDS-005

Date: 17/03/2010

Issue: 5

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KW3 BLACK TIN POWDER (Sn)

1 PRODUCT AND COMPANY INFORMATION

Substance identification: KW3 Black Tin Powder

Company identification: Keeling & Walker Limited,
Whieldon Road,
Stoke-on-Trent,
ST4 4JA, ENGLAND.

Emergency contact number: + 44 (0) 1782 744 136

E-mail: technical@keelingwalker.co.uk

2 HAZARDS IDENTIFICATION

KW3 Black Tin Powder has a reduced risk of flammability due to the presence of an oxide layer on the surface of the particles, and is not classified as flammable

Under certain conditions (e.g. as an airborne dust) tin metal powders are flammable, so situations giving rise to these conditions should be avoided

Tin metal powder is not subject to the Carriage of Dangerous Goods Regulations

3 COMPOSITION / INFORMATION ON INGREDIENTS

Tin metal powder, chemical formula: Sn

Synonyms: None

Chemical Abstract Number: CAS 7440-31-5

European Inventory Number: EINECS 2311418

4 FIRST AID MEASURES

Inhalation: Remove from exposure to fresh air

Ingestion: In case of persistent symptoms consult doctor

Eye contact: Flush eyes with copious amounts of water

Skin contact: Wash affected areas with soap and water

KW3 BLACK TIN POWDER (Sn)**5 FIRE-FIGHTING MEASURES**

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

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Do not breathe dust. Wear personal protective equipment
Environmental precautions:	No special measures required
Neutralising chemicals:	Not required
Method of clean-up:	Vacuum cleaner or wet-sweeping

7 HANDLING AND STORAGE

Precautions during handling:	Avoid causing dust. Use local exhaust ventilation or adequate respiratory protective equipment
Storage and packaging:	No special requirements

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:	2mg m ⁻³ (as Sn) 8 hour time weighted average 4mg m ⁻³ (as Sn) short term exposure limit
Protective measures:	Use local exhaust ventilation or adequate respiratory protective equipment to maintain exposure below Occupational Exposure Limits

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black powder, no odour
Specific gravity:	Approximately 7.4
Solubility in water:	Insoluble, pH of slurry neutral
Flammability:	Non-flammable
Melting point:	Oxidises to form stannic oxide
Boiling point:	Not applicable

KW3 BLACK TIN POWDER (Sn)**10 STABILITY AND REACTIVITY**

Conditions to avoid:	Sources of ignition when airborne
Materials to avoid:	Oxidising agents
Hazardous decomposition products:	None known

11 TOXICOLOGICAL INFORMATION

Inhalation: Chronic exposure to tin oxide dust may cause Stannosis (a benign form of pneumoconiosis). Due to its tin oxide coating, the material should be regarded as the oxide for assessment of inhalation risks

Ingestion: Non-toxic (LD₅₀ greater than 2.0g/kg bodyweight)

Eye contact: May be irritating to the eyes

Skin contact: May cause minor skin irritation

12 ECOLOGICAL INFORMATION

Tin metal powder is not hazardous to the environment

Environmental effect: Insoluble in water, stable and inert under normal environmental conditions

13 DISPOSAL CONSIDERATIONS

Disposal of product: According to official regulations

Disposal of packaging: According to official regulations

14 TRANSPORT INFORMATION

Tin metal powder is not subject to the Carriage of Dangerous Goods Regulations

15 REGULATORY INFORMATION

Risk Phrases: None assigned

Safety Phrases: None assigned

Classification Symbol: None assigned

16 OTHER INFORMATION

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