

1、CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Chemical Product Name : Lead Free Solder Wire

Other names : —

Product Identifier : D01885 - D01689

Suggested use and restricted use : —

Manufacturer, importer or supplier name : Duratool Premier Farnell PLC

Address: 150 Armley Road, Leeds. LS12 2QQ

Emergency telephone number/Fax number : +44 (0) 8447 880088

2、HAZARDS IDENTIFICATION

hazard classification:

Acute toxic substance (inhalation) Category 4、

Hazardous to the aquatic environment, (acute toxicity) Category 3

Specific target organ toxicity — repeated exposure Category 2

Indication content:



Symbolic : Health、Exclamation

Signal word : Warning

Hazard statement :

1. Harmful if inhaled
2. Harmful to aquatic life
3. May cause damage to organs through prolonged or repeated exposure

Precautionary Statement :

1. The body thinks not comfortably、Inquires of the medical service
2. Not inspiration dust
3. Avoids with the skin contact

Other hazard:

3、COMPOSITION, INFORMATION OR INGREDIENT

Components-Chemical Name	CAS number:	Density or Scope of Density Percentage
Tin (Sn)	7440-31-5	90.0~99.0
Silver(Ag)	7440-22-4	0.0~5.0
Copper (Cu)	7440-50-8	0.0~4.0
Nickel(Ni)	7440-02-0	0.0-0.5
Germanium(Ge)	7440-56-4	0.0-2.0
Rosin	8050-09-7	1.0~5.0

4、FIRST AID MEASURES

Safety Data Sheet

First aid methods for different exposure routes::	
Inhale	Move the patient to fresh air. If the patient has stopped breathing, give artificial respiration and send to the emergency department.
skin contact	Rinse with plenty of water and use soap if possible. If irritation persists, seek medical attention.
eye contact	Rinse with plenty of water for 15 minutes or until the irritation disappears. If the irritation persists, seek medical attention.
Ingestion	Seek your doctor immediately.
The most important symptoms and harmful effects: irritation.	
The protection to first-aid personnel: Should wear the protection equipment of level C to give first aid in the safe area.	
Notes to physicians: —	

5 、 FIRE FIGHTING MEASURES

EXTINGUISH MEDIA :
Use alcohol resistant foam, carbon dioxide or dry chemical extinguishing agents.
FIRE-FIGHTING INSTRUCTIONS : Not applicable
Specific fire-fighting methods : Not applicable
Special equipment for the protection of firefighters : Oxygen cylinder and protective clothing.

6 、 ACCIDENTAL RELEASE MEASURES

Personal precautions:
The man who without wear protect equipping or clothes forbidden enter in the let out area before clean.
Environmental precautions: Ventilate to the let out area.
Methods for cleaning up:
1. Recycle the material or bury with the qualified method in most convenient and safe way.
2. The liquid can be absorbed with the vermiculite, sand, soil or similar material.

7 、 HANDLING AND STORAGE

Handling: During work avoids producing the dust.
Storage:
Dry and non-corrosive with no sunlight

8 、 EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING MEASURES :					
1. Partial air exhaust device.					
2. Whole air exhaust device.					
EXPOSURE GUIDELINES :					
Control parameters:					
Hazardous ingredients	TWA(mg/m ³)	STEL	CEILING	BEIs	
Tin	2	—	—	—	
Silver	0.01	—	—	—	
Copper,fume	0.2	—	—	—	

Safety Data Sheet

PROTECTIVE EQUIPMENT :

Respiratory protection: 0~10 mg/m³: Dustproof breathing mask.

20 mg/m³: 1. Dustproof breathing mask. 2. Air supply type breathing mask.

50 mg/m³: 1. Dustproof and air filter breathing mask.

2. Continuous air supply type breathing mask.

100 mg/m³: 1. Contain high performance filter and air filter breathing mask.

2. Continuous air supply type breathing mask.

Unknown consistency: Continuous air supply type breathing mask.

Escape: 1. Contain high performance filter and air filter breathing mask.

2. Continuous air supply type breathing mask.

Hand protection: Rubber or plastic glove.

Eye protection: 1. The safe goggles which can defend splash. 2. Face guard in an all-round way. 3. Don't wear the contact lenses.

Skin and body protection: Apron, long sleeves clothes.

Hygiene measures: Forbid smoking or diet in the workplace.

9、PHYSICAL AND CHEMICAL PROPERTIES

Appearance(physical state, color) : Silver gray solid	Odor: —
Odor threshold: —	Melting point: 217-270℃
pH: —	BOILING POINT: —
Flammability (solid, gas): —	Flash Point: —
Decompose temperature: —	Test Method (Open cup or Close cup) : —
Auto-ignition temperature: —	Explosion Limit: —
Vapor Pressure: —	Vapor Density: —
Density: 7.3-7.4 g/cm ³	Solubility: Almost Insoluble
Partition coefficient(n-octanol/water,log Kow): —	Evaporation rate: —
Specific gravity (25 °C): —	Acid value (mgKOH / g): -
Solid content (%): -	

10、STABILITY AND REACTIVITY

Stability: Stable
Possible hazardous reactions under specific conditions : not applicable
Conditions to avoid: avoid generating dust
Materials to be avoided : Strong acids, strong oxidizers.
Dangerous products of decomposition : not applicable

11、TOXICOLOGICAL INFORMATION

Routes of exposure: nose, skin.
Symptoms: May cause the irritation of nose, skin.
Acute toxicity: May cause the irritation of nose, skin.
Chronic toxicity or long term toxicity: —

12、ECOLOGICAL INFORMATION

Ecotoxicity: —
Persistent and biodegradable: —
Bio-accumulative potential: —

Safety Data Sheet

Mobility in soil: —
Other adverse effects: —

13、DISPOSAL CONSIDERATIONS

Methods of waste disposal :
Utilizing recoverably or according to the refuse disposal ordinance disposal

14、TRANSPORT INFORMATION

UN No.: Not applicable
UN Proper shipping name: Not applicable
Transportation hazard classification : Not-restricted by IATA and IMDG.
IMO- IMDG /ICAO/ IATA –DGR : NOT REGULATED AS A DANGEROUS.
Packing group: Not applicable
Marine pollutant (Yes/No): Not applicable
Specific transport measures and precautionary conditions: Dry and non-corrosive with no sunlight

15、REGULATORY INFORMATION

Applicable regulations:
1. Occupational Safety and Health Law.
2. Laborer operating environment permits the thickness standard
3. Industrial waste storage cleaning dispose method and facility standard
4. Hazardous chemicals labeled general rule

16、OTHER INFORMATION

Reference	AIR PRODUCTS MSDS, INTERNATIONAL MARITIME DANGEROUS GOODS CODE	
Dept. who made chart	DURATOOL PREMIER FARNELL PLC	
	50 Armley Road, Leeds, LS12 2QQ	
	TEL : +44 (0)8447 880088	
Chart made by		
Date chart made	2023/02/17	
Remark	Indication "—" represents present not correlation data	

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