

## 1. Identification of the substance

### 1.1 Name of the product: Solid Solder Wire

1.1.1 Available diameters: 0.7, 0.8, 1.0, 1.2, 1.5, 2.0, 2.6, 3.0 mm

1.1.2 Available spools: 0.1, 0.25, 0.5, 1.0, 8.0, 10.0 kg

### 1.2 Application: Manual and automatic soldering

## 2. Composition and information of ingredients

Component	Number CAS	Contents %	Hazard identification R
Tin	7440-31-5	62.5-63.5	-
Lead	7439-92-1	rest	20/22-33-62

## 3. Hazard identification

3.1 *Fire hazard:* Nonflammable materials

3.2 *Toxic hazard:* Does not cause any hazards

3.3 *Ecotoxic hazard:* Does not cause any ecotoxic hazards

## 4. First-aid measures

4.1 *After inhalation:* Supply fresh air; consult doctor in case of complaints

4.2 *After swallowing:* Induce vomiting, if person is conscious. Seek medical help

4.3 *After eye contact:* Rinse opened eye for several minutes under running water

4.4 *After skin contact:* Immediately wash with water and soap and rinse thoroughly

## 5. Fire-fighting measures

5.1 *Special hazards:* In case of fire, the following can be released: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), aliphatic aldehydes, melted solder above 1000°F will liberate toxic lead

5.2 *Suitable extinguishing agents:* CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

5.3 *General measures:* Inform appropriate authorities in case of environmental contamination. Evacuate a population who are not involved in desposing of damage. Call for a fire-brigade and police

5.4 *Special measures:* Wear protective outfit

## 6. Accidental release

6.1 *General measures:* Inform appropriate authorities in case of environmental contamination. Evacuate a population who are not involved in disposing of damage. Call for a fire-brigade and police

6.2 *Protective equipment:* Wear self-contained respiratory protective device, protective glasses

6.3 *Special measures:* Do not allow product to reach sewage system or any water course. Dispose of toxic dust with water spray. Apply a respiratory device

6.4 *Environmental protection:* Scoop up paste and deposit in appropriate containers. Remove residual

## 7. Handling and storage

### 7.1 Handling:

7.1.1 Information for safe handling: Ensure good ventilation/exhaustion at the workplace

7.1.2 Information about fire – and explosion protection: No special measures required

### 7.2 Storage:

7.2.1 Requirements to be met by storerooms and receptacles: No special requirements

7.2.2 Information about storage in one common storage facility: Not required

7.2.3 Further information about storage conditions: Store in dry conditions

## 8. Exposure controls/personal protection

### 8.1 Ingredients with limit Values that require monitoring at the workplace:

Metal	OES – short term	OES – long term
Tin	2,0 mg/m <sup>3</sup>	4,0 mg/m <sup>3</sup>
Lead	0,5 mg/m <sup>3</sup>	N/A

8.2 *Personal protective equipment:* Keep away from foodstuffs, beverages and feed

8.3 *General protective and hygienic measures:* Wash hands before breaks and at the end of work. Store protective clothing separately

8.4 *Respiratory protection:* When ventilation is not sufficient to remove fumes from the breathing zone, a safety approved respirator or self-contained breathing apparatus should be worn

8.5 *Protection of hands:* Protective gloves (material of gloves – nitril rubber, natural rubber)

8.6 *Eye protection:* Safety glasses

## 9. Physical and chemical properties

9.1 *Form:* Solid

9.2 *Colour:* Silver grey

9.3 *Odour:* Mild

9.4 *Melting point:* 217-220°C

9.5 *Boiling point:* Undetermined

9.6 *Flash point:* Not applicable

9.7 *Danger of explosion:* Product does not present an explosion hazard

9.8 *Density at 20°C:* 7,37 g/cm<sup>3</sup>

9.9 *Solubility in water:* Insoluble

## 10. Stability and reactivity

10.1 *Thermal decomposition/conditions to be avoided:* No decomposition if used according to specifications

10.2 *Materials to be avoided:* Strong acids, strong oxidizer

10.3 *Dangerous reactions:* No dangerous reactions known

10.4 *Dangerous decomposition products:* No dangerous decomposition products known

## 11. Toxicological information

11.1 *Primary irritant effect:* No irritant effect

11.2 *On the eye:* Smoke during soldering can cause eye irritation

11.3 *Sensitization:* No sensitizing effects known

## 12. Ecological information

12.1 *General notes:* Do not allow product to reach ground water, water course or sewage system

## 13. Disposal considerations

13.1 *Product recommendation:* Must not be disposed together with household garbage. Do not allow product to reach sewage system

13.2 *European waste catalogue:* Disposal must be made according to official regulations

13.3 *Uncleaned packaging:* 10 10 03 – dross and skimmings after casting processes

13.4 *Recommendation:* Disposal must be made according to official regulations

## 14. Transport information

14.1 *ADR/RID class (land):* Not regulated

14.2 *IMDG class (marine):* Not regulated

14.3 *IATA-DGR (air transport):* Not regulated

## 15. Regulatory information

15.1 *Special labelling of certain preparations:* Safety data sheet available for professional user on request

15.2 *Waterhazard class:* Water hazard class 3 (Self-assessment); extremely hazardous for water

15.3 *Risk phrases:*

15.3.1 R36 - possible risk of impaired fertility

15.4 *Safety phrases:*

15.4.1 24 - avoid contact with skin

15.4.2 29/56 - do not empty into drains, dispose of this material and its container at hazardous or special waste collection point