

1. Chemical Identification

Trade-name: **Solder wire Multicomp Sn97,1Ag2,6Cu 0,3 Typ 100**

Manufacturer: Farnell InOne GmbH
Keltenring 14
82041 Oberhaching
Tel.-Nr.:+49 (89) /61 30 30
Emergency phone number: +49 (202) 58 51 18 / 119

2. Composition/Information of Ingredients

Chemical characteristic: Alloy Tin-Silver - Copper with max. 3,5% rosin (halogenated)

Ingredients

| Proportion | CAS-No. | Symbols | Risk-Phrases | Chemical name |
|------------|-----------|---------|--------------|---------------|
| remainder% | 7440-31-5 | | | Tin |
| <2,6% | 7440-22-4 | | | Silver |
| <0,3% | 7440-50-8 | | | Copper |
| <3,5% | 8050-09-7 | Xi | 43 | rosin |

3. Hazards Identification:

Not a composition for the purposes of the Dangerous Substances Regulations, but nevertheless observe items 4-16

4. First Aid Measures:

General : If casualty is unconscious but breathing, place in the recovery position. If breathing has stopped apply artificial resuscitation or give oxygen by mask

Inhalation
Skin Contact : Remove patient to fresh air. If irritation resists, obtain medical attention.
Eye Contact : If any skin irritation develops seek medical attention
Flush **immediately** with plenty of water. In cases where spitting flux has entered the eye seek medical attention.

Ingestion: seek medical attention.

Hints for doctors
Inhalation of the flux fumes given off at soldering temperatures will irritate the nose, throat and respiratory system. Repeated or prolonged exposure to flux fumes may cause shortness of breath and cough..

Treatment:
General : Decontamination, symptomatic treatment.
If casualty is unconscious but breathing, place in the recovery position. If breathing has stopped apply artificial resuscitation or give oxygen by mask

Inhalation
Skin Contact : Remove patient to fresh air. If irritation resists, obtain medical attention.
If any skin irritation develops seek medical attention

5. Fire Fighting Measures

Extinguishing Media: Use extinguishing media appropriate to surrounding fire con
Special Fire-fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental Release Measures:

Pick up and place in appropriate container

7. Handling and Storage:

The fumes produced during soldering should be extracted away from the breathing zone of the operators. Ensure the area is well ventilated. Wash hands with soap and warm water after handling, particularly before eating, drinking or smoking. The product should be stored in a cool, dry area.

EU-Material-safety-data-sheet according to 91/155/EWG

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8. Exposure Controls / Personal Protection:

Local exhaust or dilution ventilation and control of process conditions are suitable methods..

| Substance | CAS-No | ml/m ³ (ppm) | mg/m ³ | Art |
|-----------|-----------|-------------------------|-------------------|-----------|
| Tin | 7440-31-5 | | 2 | MAK (NL) |
| Silver | 7440-22-4 | | 0,1 | MAK(DFG) |
| Copper | 7440-50-8 | | 1 | MAK (DFG) |

Respiratory Protection: If concentrations are over the exposure limit, use a supplied air respirator.

Hand Protection: : Use heat resistant gloves if required.

Eye Protection: Operators should wear goggles

9. Physical and Chemical Properties

Appearance and Odour: Tin-Silver CopperSolder

Melting Point: 217 °C

Vapour Pressure: n.a.

Density(20°C): 7-8 g/cm³

10. Stability and Reactivity:

Dangerous reactions: Possible with oxidising agents.

Hazardous combustion or decomposition products: none

11. Toxicological Information

Acute Effects:

None toxic metal.

12. Ecological Information:

No effect to environment known

13. Disposal Considerations:

Contact a licensed professional waste disposal service to dispose of this material.

Observe all federal, state and local environmental regulations. Collect metal for recycling

14. Transport Information:

GGVS/ADR/RID: The product is not classified as hazardous for transport

15. Regulatory Information:

Not subject to current legislation

16. Other Information:

Cause of modification:

General revision

Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide..

Safety data-sheet is written by:

Save of quality/laboratory

Contact - person:

Dr. W. Kruppa