Material Safety Data Sheet according to 91/155/EC - ISO 11014-1

96SC 105 1C 1.0MM 0.25KG RLG

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1. Identification of the substance/preparation and of the company/undertaking

Trade name:
96SC 105 1C 1.0MM 0.25KG RLG

Intended use:
Solder Wire

Company name:
Henkel Limited
Technologies House
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (0)1442 278000
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Emergency information:
+44 (0) 1442 278000

2. Composition / information on ingredients

Declaration of ingredients according to 91/155/EC:

Hazardous components CAS-No.	EINECS	content	Classification
Tin 7440-31-5	231-141-8	90 - 100 %	
Silver 7440-22-4	231-131-3	1 - 5 %	
Copper 7440-50-8	231-159-6	0,1 - 1 %	

3. Hazards identification

Fumes evolved at soldering temperatures will irritate the nose, throat and lungs.

4. First aid measures

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:
Flush eyes with plenty of water for at least 5 minutes. If irritation persists seek medical attention.

Ingestion:
Do not induce vomiting.
Seek medical advice.

5. Fire fighting measures

Combustion behaviour:
The product itself does not burn. Any fire extinguishing action should be appropriate to the surroundings.

Extinguishing media which must not be used for safety reasons:
Do not use water on fires where molten metal is present.

Special protection equipment for firefighters:
Wear self-contained breathing apparatus.

Hazardous combustion products:
High temperatures may produce heavy metal dust, fumes or vapours.
The flux medium will give rise to irritating fumes.

6. Accidental release measures

Clean-up methods:
Scrape up spilled material and place in a closed container for disposal.

7. Handling and storage

Handling:
Extraction is necessary to remove fumes evolved during reflow.
When using do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.

Storage:
Store in a cool, dry place.

8. Exposure controls / personal protection

Components with specific control parameters for workplace:
Valid for
Great Britain
Basis
UK EH40 WELs

Ingredient	ppm	mg/m^3	Type	Category	Remarks
TIN (INORGANIC COMPOUNDS AS SN) 7440-31-5		2	Time Weighted Average (TWA).		EU-2000/39/EC
SILVER, METALLIC 7440-22-4		0,1	Time Weighted Average (TWA).		EU-2000/39/EC
		0,1	Time Weighted Average (TWA).		EH40 WEL
COPPER, FUME 7440-50-8		0,2	Time Weighted Average (TWA).		EH40 WEL
		1	Time Weighted Average (TWA).		EH40 WEL
		2	Short Term Exposure Limit (STEL):		EH40 WEL

Engineering controls:
Extraction is necessary to remove fumes evolved during reflow.
Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection:
Not necessary.

Eye protection:
Wear protective glasses.

9. Physical and chemical properties

Appearance	solid material
	grey
Odor:	none
pH-value	not applicable
Flash point	none
Vapor pressure	not applicable
Density (25 °C (77 °F))	7,5 g/cm3
Solubility (qualitative) (Solvent: Water)	insoluble
Melting point	217 °C (422,6 °F)
Octanol/Water distribution coefficient	not applicable
VOC content	1 - 5 %

10. Stability and reactivity

Conditions to avoid:
Stable under recommended storage conditions.

Materials to avoid:
Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

Hazardous decomposition products:
Thermal decomposition can lead to release of irritating gases and vapors.

11. Toxicological information

Oral toxicity:
This material is considered to have low toxicity if swallowed.

Inhalative toxicity:
Fumes evolved at soldering temperatures will irritate the nose, throat and lungs.

Dermal toxicity:
This product is considered to have low dermal toxicity.

Skin irritation:
Fumes emitted during soldering may irritate the skin.

Eye irritation:
Fumes emitted during soldering may irritate the eyes.

12. Ecological information

Mobility:
The product is insoluble and sinks in water.

Persistence and Biodegradability:
The product is not biodegradable.

Bioaccumulative potential:
No data available.

General ecological information:
No data available.

13. Disposal considerations

Product
Disposal methods:
Wherever possible unwanted solder alloy should be recycled for recovery of metal.
Otherwise dispose of in accordance with local and national regulations.

Waste code(EWC):
06 04 05 - wastes containing other heavy metals

Packaging
Disposal methods:
Dispose of as unused product.

14. Transport information

General information:
Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

15. Regulations - classification and identification

Indication of danger:

none

Risk phrases:
not applicable

Safety phrases:
not applicable

Additional information:
Avoid breathing fumes given out during soldering.
Flux fumes may irritate the nose, throat and lungs.
After handling solder wash hands with soap and water before eating, drinking or smoking.
Keep out of reach of children.

National regulations/information (Great Britain)

Remarks	The Health & Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations. L5:General Approved Code of Practice to the COSHH Regulations. HS(G)97:A Step by Step Guide to the COSHH Regulations. HS(G)193:COSHH essentials: Easy steps to control chemicals.

16. Other information

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and it's subsequent amendments, and Commission Directive 1999/45/EC.