



Safety Data Sheet according to (EC) No 1907/2006 - ISO 11014-1

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SN62 362 5C

SDS no. : 175671

V001.2

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

Trade name:

SN62 362 5C

Intended use:

Solder Wire

Company name:

Henkel AG & Co. KGaA

Henkelstr. 67

40191 Düsseldorf

Germany

Phone: +49 (211) 797-0

E-mail address of person responsible for Safety Data Sheet:

ua-productsafety.uk@uk.henkel.com

Emergency information:

24 Hours Emergency Tel: +44 (0)20 8312 0291

2. Hazards identification

This product contains modified rosin.

Flux fumes emitted during reflow will irritate the nose and throat and may cause an asthmatic type reaction.

3. Composition / information on ingredients

General chemical description:

This is an article, according to EU Directives it does not require a Safety Data Sheet

Declaration of ingredients according to EC/1907/2006:

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Tin 7440-31-5	231-141-8	60 - 80 %	
Lead 7439-92-1	231-100-4	30 - 40 %	
Rosin 8050-09-7	232-475-7	1 - 5 %	Xi - Irritant; R43
Silver 7440-22-4	231-131-3	1 - 5 %	

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

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:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical advice.

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.

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

Environmental precautions:

Do not let product enter drains.

Clean-up methods:

Scrape up spilled material and place in a closed container for disposal.

7. Handling and storage

Handling:

Use only in well-ventilated areas.
Avoid skin and eye contact.
When using do not eat, drink or smoke.
Wash hands before breaks and immediately after handling the product.

Storage:

Store in a cool place in closed original container.

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
Lead 7439-92-1		0,15	Time Weighted Average (TWA).		EH40 WEL
		0,15	Time Weighted Average (TWA).		EU_OEL
				Listed.	EU_OEL_II
			Biological Limit Value:		EU_OEL_II
ROSIN-BASED SOLDER FLUX FUME 8050-09-7		0,05	Time Weighted Average (TWA).		EH40 WEL
		0,15	Short Term Exposure Limit (STEL):		EH40 WEL

Engineering controls:

Ensure adequate ventilation, especially in confined areas.

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:

For hand protection, use rubber or plastic gloves.

Eye protection:

Wear protective glasses.

9. Physical and chemical properties

General characteristics:

Appearance	solid
	grey
Odor:	none

Phys./chem. properties:

pH-value	not applicable
Boiling point	Not determined
Flash point	> 100 °C (> 212 °F)
Vapor pressure	not applicable
Density	8,5 g/cm ³
()	
Solubility (qualitative)	insoluble
Melting point	Solder alloy
Octanol/Water distribution coefficient	Not determined
Vapor density:	Not available
VOC content (1999/13/EC)	< 5 %

10. Stability and reactivity

Conditions to avoid:

Stable under normal conditions of storage and use.

Materials to avoid:

Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.
Strong oxidizing agent.

Hazardous decomposition products:

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

11. Toxicological information

Oral toxicity:

Harmful if swallowed.

Inhalative toxicity:

Fumes evolved at soldering temperatures will irritate the nose, throat and lungs. Prolonged or repeated exposure to flux fumes may result in sensitisation in sensitive workers.

Skin irritation:

Fumes emitted during soldering may irritate the skin.

Eye irritation:

Fumes emitted during soldering may irritate the eyes.

Other remarks:

Chronic overexposure to lead may result in damage to the blood forming, nervous, urinary and reproductive systems. Severe lead toxicity will cause sterility, abortion and neonatal mortality and morbidity.

12. Ecological information

Mobility:

No data available.

Persistence and Biodegradability:

The product is not biodegradable.

Bioaccumulative potential:

Octanol/Water distribution coefficient: Not determined

General ecological information:

Do not empty into drains / surface water / ground water.

13. Disposal considerations

Product disposal:

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

Disposal of uncleaned packages:

Dispose of in accordance with local and national regulations.

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:

No label

Additional information:

Contains lead which may harm your health. Lead can cause birth defects and other reproductive harm.
Regulations forbid the use of lead solder in any private or public drinking water supply system.
Avoid breathing fumes given out during soldering.
Flux fumes may irritate the nose, throat and lungs and may after prolonged/repeated exposure give an allergic reaction (asthma).
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.
IND (G)248L:Solder fume and you. IND(G)249L:Controlling health risks from rosin (colophony) based solder fluxes.
The Control of Lead at Work Regulations. L132:Control of Lead at Work: Approved Code of Practice and Guidance.
Employees should be under medical surveillance if the risk assessment made under the Control of Lead at Work Regulations indicates they are likely to be exposed to significant concentrations of lead, or if an Employment Medical Advisor or appointed doctor so certifies.
A woman employed on work which exposes her to lead should notify her employer as soon as possible if she becomes pregnant. The Employment Medical Advisor / Appointed Doctor should be informed of the pregnancy.
Under the Management of Health and Safety at Work Regulations, employers are required to assess the particular risks to health at work of pregnant workers and workers who have recently given birth or who are breast feeding.

16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R43 May cause sensitization by skin contact.

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.
According to the regulations safety data sheet is not demanded for this product. This voluntary information is given in a format of 16 points.

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