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

60EN 105 5C

SDS no. : 221750
V001.1
Revision: 18.11.2008
printing date: 14.05.2009

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

Trade name:
60EN 105 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

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

3. Composition / information on ingredients

Declaration of ingredients according to EC/1907/2006:

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Tin 7440-31-5	231-141-8	50 - 60 %	
Lead 7439-92-1	231-100-4	30 - 40 %	No classification required.

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.

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

Personal precautions:
Avoid contact with skin and eyes.

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:
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/m3	Type	Category	Remarks
TIN (INORGANIC COMPOUNDS AS SN) 7440-31-5		2	Time Weighted Average (TWA).		EU-2000/39/EC
LEAD AND ITS IONIC COMPOUNDS 7439-92-1				Listed.	EU_OEL_II
INORGANIC LEAD AND ITS COMPOUNDS 7439-92-1		0,15	Time Weighted Average (TWA).		EU_OEL
LEAD AND ITS IONIC COMPOUNDS 7439-92-1			Biological Limit Value:		EU_OEL_II
LEAD AND LEAD COMPOUNDS, OTHER THAN LEAD ALKYLS (AS PB) 7439-92-1		0,15	Time Weighted Average (TWA).		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:

The use of chemical resistant gloves such as Nitrile are recommended.
Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Wear protective glasses.

9. Physical and chemical properties

General characteristics:

Appearance	solid material
	Grey
Odor:	None

Phys./chem. properties:

pH-value	Not applicable
Flash point	Not applicable
Vapor pressure	Not applicable
Density (25 °C (77 °F))	8,5 g/cm3
Solubility (qualitative) (Solvent: Water)	Insoluble
Melting point	183 - 188 °C (361.4 - 370.4 °F)
VOC content	< 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:
Harmful 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.

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:
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:
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 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.
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.
Do not heat above 500 °C
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

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.