



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

Page 1 of 6

SN62RM92AAS90

SDS no. : 175648
V001.1

Revision: 21.05.2008
printing date: 26.06.2008

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

Trade name:

SN62RM92AAS90

Intended use:

Solder Paste

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

R43 May cause sensitization by skin contact.

R20/22 Also harmful by inhalation and if swallowed.

R33 Danger of cumulative effects.

R61 May cause harm to the unborn child.

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

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 %	Toxic for reproduction - category 1.; T - Toxic; R61 Toxic for reproduction - category 3.; Xn - Harmful; R62 Xn - Harmful; R20/22 R33
Silver 7440-22-4	231-131-3	1 - 5 %	
Modified rosin 8050-15-5	232-476-2	1 - 5 %	Xi - Irritant; R43

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:

Immediately wash skin thoroughly with soap and water.
Obtain medical attention if irritation persists.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

Ingestion:

Do not induce vomiting.
Seek medical advice.

5. Fire fighting measures

Suitable extinguishing media:

carbon dioxide, foam, powder
fine water spray

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:

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 original container at temperatures 5-10°C.

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).		ECLTV
Lead 7439-92-1		0,15	Time Weighted Average (TWA).		EH40 WEL
INORGANIC LEAD AND ITS COMPOUNDS 7439-92-1		0,15	Time Weighted Average (TWA).		EU_OEL
LEAD AND ITS IONIC COMPOUNDS 7439-92-1				Listed.	EU_OEL_II
LEAD AND ITS IONIC COMPOUNDS 7439-92-1			Biological Limit Value:		EU_OEL_II
SILVER, METALLIC 7440-22-4		0,1	Time Weighted Average (TWA).		ECLTV
SILVER (METALLIC) 7440-22-4		0,1	Time Weighted Average (TWA).		EH40 WEL

Engineering controls:

Ensure adequate ventilation, especially in confined areas.

Extraction is necessary to remove fumes evolved during reflow.

Respiratory protection:

Use only in well-ventilated areas.

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: paste

Odor: grey
Mild

Phys./chem. properties:

pH-value: not applicable
 Boiling point: 256 °C (492.8 °F)
 Flash point: 117 °C (242.6 °F)
 Density: 4,8600 g/cm³
 ()
 Solubility (qualitative): not miscible
 (Solvent: Water)
 Melting point: 179,0 °C (354.2 °F)
 Octanol/Water distribution coefficient: Not determined
 VOC content: < 5,0 %

10. Stability and reactivity

Conditions to avoid:

Stable under recommended storage conditions.
Solder alloy will react with concentrated nitric acid to produce toxic fumes of nitrogen oxides.

Materials to avoid:

Reacts with strong oxidants.

Hazardous decomposition products:

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

11. Toxicological information

Oral toxicity:

Harmful if swallowed.
Swallowing may cause irritation of mouth, throat and digestive tract, diarrhoea and vomiting

Inhalative toxicity:

Harmful by inhalation.
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:

Prolonged or repeated contact may cause skin irritation.

Eye irritation:

Fumes emitted during soldering may irritate the eyes.
Prolonged or repeated contact may cause eye irritation.

Sensitizing:

May cause sensitization by skin contact.

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

Ecotoxicity:

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

Mobility:

No data available.

Persistence and Biodegradability:

The product is not biodegradable.

Bioaccumulative potential:

Octanol/Water distribution coefficient: Not determined

13. Disposal considerations

Product disposal:

Wherever possible unwanted solder pastes should be recycled for recovery of metal.
Dispose of as hazardous waste in compliance with local and national regulations.

Waste code(EWC):

16 03 03 - inorganic wastes containing dangerous substances

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:

T - Toxic



Contains

Lead,
Modified rosin

Risk phrases:

R33 Danger of cumulative effects.
R43 May cause sensitization by skin contact.
R61 May cause harm to the unborn child.
R62 Possible risk of impaired fertility.
R20/22 Also harmful by inhalation and if swallowed.

Safety phrases:

S24 Avoid contact with skin.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53 Avoid exposure - obtain special instructions before use.

Additional information:

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).
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.

Additional labeling:

Only for professional users.

National regulations/information (Great Britain):

Remarks

The Health & Safety at Work Act 1974.
The Control of Lead at Work Regulations. L132:Control of Lead at Work: Approved Code of Practice and Guidance.
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.
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:

- R20/22 Harmful by inhalation and if swallowed.
- R33 Danger of cumulative effects.
- R43 May cause sensitization by skin contact.
- R61 May cause harm to the unborn child.
- R62 Possible risk of impaired fertility.

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 its subsequent amendments, and Commission Directive 1999/45/EC.