



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

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TTC-LF 15G RS

sds no. : 181481
V004.0

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

Trade name:

TTC-LF 15G RS

Intended use:

Tip Tinner/Cleaner

Company name:

Henkel Limited
2 Bishop Square Business Park
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933

Fax-no.: +44 1606 863762

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

ua-productsafety.uk@uk.henkel.com

Emergency information:

24 Hours Emergency Tel: +44 (0)1442 278497

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) No 1907/2006:

| Hazardous components CAS-No. | EINECS ELINCS | content | Classification |
|---------------------------------|------------------|-----------|---|
| Tin 7440-31-5 | 231-141-8 | 40 - 50 % | |
| Citric acid 77-92-9 | 201-069-1 | 5 - 10 % | Xi - Irritant; R36 |
| Silver 7440-22-4 | 231-131-3 | 0,1 - 1 % | No classification required. |
| Copper 7440-50-8 | 231-159-6 | 0,1 - 1 % | R52/53 Xn - Harmful; R22 Xi - Irritant; R36/37/38 |

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.

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.

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/m3 | Type | Category | Remarks |
|--|-----|-------|-----------------------------------|------------|----------|
| TIN (INORGANIC COMPOUNDS AS SN) 7440-31-5 | | 2 | Time Weighted Average (TWA). | Indicative | ECTLV |
| SILVER (METALLIC) 7440-22-4 | | 0,1 | Time Weighted Average (TWA). | | EH40 WEL |
| SILVER, METALLIC 7440-22-4 | | 0,1 | Time Weighted Average (TWA). | Indicative | ECTLV |
| COPPER, INHALABLE DUSTS AND MISTS (AS CU) 7440-50-8 | | 2 | Short Term Exposure Limit (STEL): | | EH40 WEL |
| COPPER, FUME 7440-50-8 | | 0,2 | Time Weighted Average (TWA). | | EH40 WEL |
| COPPER, INHALABLE DUSTS AND MISTS (AS CU) 7440-50-8 | | 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.
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: Paste
Grey
Odor: Mild

Phys./chem. properties:

pH-value: not applicable
Boiling point: Not determined
Flash point: none
Vapor pressure: Not determined
Density: 3,5 g/cm3
()
Solubility (qualitative): Insoluble
(Solvent: Water)
Melting point: 217 °C (422.6 °F)
VOC content: < 1,00 %
(1999/13/EC)

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.

Hazardous decomposition products:

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

11. Toxicological information**Oral toxicity:**

May cause irritation to the digestive tract.

Inhalative toxicity:

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

Skin irritation:

Prolonged or repeated contact may cause skin irritation.

Eye irritation:

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

12. Ecological information**Persistence and Biodegradability:**

The product is not biodegradable.

Ecotoxicity:

| Hazardous components CAS-No. | Species | Exposure time | Value type | Value |
|---------------------------------|--------------------------------|------------------|---------------|---------|
| Copper 7440-50-8 | Bluegill (Lepomis macrochirus) | 96 h | LC 50 | 10 mg/l |

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.

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 classified as hazardous.

Safety phrases:

not applicable

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).

After handling solder wash hands with soap and water before eating, drinking or smoking.

Keep out of reach of children.

Additional labeling:

Safety data sheet available for professional user on request.

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

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:

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.