



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

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SPOT-ON SOLDER RESIST

SDS no. : 153925

V002.0

Revision: 30.09.2008

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

**Trade name:**

SPOT-ON SOLDER RESIST

**Intended use:**

Solder Mask

**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

Prolonged contact with skin, particularly damaged skin, may cause sensitization or dermatitis in sensitive individuals.

R43 May cause sensitization by skin contact.

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

### 3. Composition / information on ingredients

**Declaration of ingredients according to EC/1907/2006:**

| Hazardous components<br>CAS-No.           | EINECS<br>ELINCS | content   | Classification  |
|---|------------------|-----------|---|
| Rubber, natural<br>9006-04-6              | 232-689-0        | 30 - 40 % | Xi - Irritant; R43  |
| Zinc diethyldithiocarbamate<br>14324-55-1 | 238-270-9        | 0,1 - 1 % | Xn - Harmful; R22<br>Xi - Irritant; R36/37/38<br>R43<br>N - Dangerous for the environment; R50, R53 |
| Ammonia<br>7664-41-7                      | 231-635-3        | 0,1 - 1 % | T - Toxic; R23<br>C - Corrosive; R34<br>N - Dangerous for the environment; R50<br>R10               |

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 running water (for 10 minutes). Seek medical attention if necessary.

**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.

**Suitable extinguishing media:**

All common extinguishing agents are suitable.

**Special protection equipment for firefighters:**

Wear self-contained breathing apparatus.

**Hazardous combustion products:**

Toxic and irritating vapors.

#### 6. Accidental release measures

**Environmental precautions:**

Do not let product enter drains.

**Clean-up methods:**

Scrape up as much material as possible.  
Store in a closed container until ready 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       |
|---------------------------------|-----|-------|-----------------------------------|----------|---------------|
| AMMONIA, ANHYDROUS<br>7664-41-7 |     |       |                                   | Listed.  | EH40 WEL      |
| AMMONIA, ANHYDROUS<br>7664-41-7 | 20  | 14    | Time Weighted Average (TWA).      |          | EU-2000/39/EC |
| AMMONIA, ANHYDROUS<br>7664-41-7 | 50  | 36    | Short Term Exposure Limit (STEL): |          | EU-2000/39/EC |
| AMMONIA, ANHYDROUS<br>7664-41-7 | 25  | 18    | Time Weighted Average (TWA).      |          | EH40 WEL      |
| AMMONIA, ANHYDROUS<br>7664-41-7 | 35  | 25    | Short Term Exposure Limit (STEL): |          | EH40 WEL      |

**Engineering controls:**

Ensure adequate ventilation, especially in confined areas.

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.

**Skin protection:**

Wear suitable protective clothing.

**9. Physical and chemical properties****General characteristics:**

Appearance

Paste

Odor:

White  
Ammoniacal**Phys./chem. properties:**

pH-value

7,00 - 9,00

(20 °C (68 °F))

Boiling point

100 °C (212 °F)

Flash point

not applicable

Vapor pressure

Not determined

Density

0,910 - 0,990 g/cm3

(25,0 °C (77 °F))

Solubility (qualitative)

Miscible

(Solvent: Water)

Octanol/Water distribution coefficient

Not determined

VOC content

&lt; 1 %

(1999/13/EC)

## 10. Stability and reactivity

**Conditions to avoid:**

Stable

**Materials to avoid:**

Reaction with strong acids.

**Hazardous decomposition products:**

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

## 11. Toxicological information

**Oral toxicity:**

May cause nausea, vomiting and abdominal pain.

**Inhalative toxicity:**

May cause irritation to respiratory system and mucous membranes if used in confined spaces.

**Dermal toxicity:**

This product is considered to have low dermal toxicity.

**Skin irritation:**

May cause allergic reaction.

**Eye irritation:**

Vapours may be irritating to eyes causing lachrymatory effect.

**Sensitizing:**

May cause sensitization by skin contact.

## 12. Ecological information

**Ecotoxicity:**

Harmful to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

**Bioaccumulative potential:**

Octanol/Water distribution coefficient: Not determined

## 13. Disposal considerations

**Product disposal:**

Dispose of as hazardous waste in compliance with local and national regulations.

Incineration under controlled conditions is recommended.

**Waste code(EWC):**

16 10 01 - aqueous liquid 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:

Xi - Irritant



### Contains

Rubber, natural

### Risk phrases:

R43 May cause sensitization by skin contact.

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

### Safety phrases:

S24 Avoid contact with skin.

S37 Wear suitable gloves.

S60 This material and its container must be disposed of as hazardous waste.

Contains Zinc diethyldithiocarbamate. May produce an allergic reaction.

### 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:

R10 Flammable.

R22 Harmful if swallowed.

R23 Toxic by inhalation.

R34 Causes burns.

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

R43 May cause sensitization by skin contact.

R50 Very toxic to aquatic organisms.

R53 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.