

This safety data sheet has been prepared in accordance with the requirements of EC Directives 1999/45/EC and 2001/58/EC and provides information relating to the safe handling and use of the product.

## 1. PRODUCT AND COMPANY INFORMATION

|                               |                                                            |
|-------------------------------|------------------------------------------------------------|
| <b>Product Code</b>           | 0128221                                                    |
| <b>Trade Name</b>             | 221                                                        |
| <b>Manufacturer/Supplier</b>  | Henkel Loctite Adhesives Ltd.                              |
| <b>Address</b>                | Watchmead,<br>Welwyn Garden City,<br>Herts., AL71JB.<br>UK |
| <b>Phone Number</b>           | 01 707 358800                                              |
| <b>Fax Number</b>             | 01 707 358900                                              |
| <b>Emergency Phone Number</b> | +353-1-4599301/+353-87-2629625/+353-1-4046444              |

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

|               |                                                                                  |
|---------------|----------------------------------------------------------------------------------|
| <b>Nature</b> | Anaerobic thread sealant.<br>Product based on polyethyleneglycol dimethacrylate. |
|---------------|----------------------------------------------------------------------------------|

### Hazardous Components in Product for EC

| Component Name           | CAS / EINEC        | Concentration | R Phrases                               | Classification |
|--------------------------|--------------------|---------------|-----------------------------------------|----------------|
| N,N-Diethyl-p-Toluidine  | 613-48-9 210-345-0 | 0.10 - 0.70   | R23/24/25, R33                          | T              |
| N,N-Dimethyl-o-Toluidine | 609-72-3 210-199-8 | 0.10 - 0.40   | R23/24/25, R33, R52/53                  | T              |
| Cumene Hydroperoxide 80% | 80-15-9 201-254-7  | 1.00 - 5.00   | R7, R21/22, R23, R34, R48/20/22, R51/53 | O, T, N        |

## 3. HAZARD IDENTIFICATION

Harmful by inhalation. Irritating to eyes and respiratory system.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Prolonged contact with skin, particularly damaged skin, may cause sensitization or dermatitis in sensitive individuals.

## 4. FIRST AID MEASURES

### First Aid - Inhalation

Remove affected person to fresh air, and if still feeling unwell seek medical attention.

### First Aid - Skin

Wash skin with soap and water.

### First Aid - Eyes

Flush eyes immediately with plenty of water for at least 15 minutes.

### First Aid - Ingestion

Rinse mouth with water then give plenty of water to drink. Do not induce vomiting. Seek medical advice.

## 5. FIRE FIGHTING MEASURES

Non flammable product (flash point is greater than 100°C (CC)).  
If product is involved in fire extinguish with dry powder, foam or carbon dioxide.  
Trace amounts of toxic fumes may be released on incineration and the use of breathing apparatus is recommended.

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**6. ACCIDENTAL RELEASE MEASURES**

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Ventilate area.

For small spills wipe up with paper towel and place in container for disposal.

For large spills absorb onto inert absorbent material and place in sealed container for disposal.

Wash spillage site thoroughly with soap and water or detergent solution.

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**7. HANDLING AND STORAGE**

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**Handling**

Use in a well ventilated area. Vapours should be extracted to avoid inhalation. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

**Storage**

Store in original containers at 8°C-21°C and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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Rubber gloves and chemical goggles should be worn. In case of insufficient ventilation, wear suitable respiratory equipment. Good industrial hygiene practices should be observed. In circumstances where there is a potential for prolonged or repeated skin contact, the use of polyvinyl chloride or nitrile rubber gauntlets or equivalent solvent resistant gloves is recommended.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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|-----------------------------------------------|-----------------------|
| <b>Physical State</b>                         | Liquid.               |
| <b>Colour</b>                                 | Purple.               |
| <b>Odour</b>                                  | Characteristic.       |
| <b>pH</b>                                     | Range between 3 to 6. |
| <b>Boiling Range/Point (°C)</b>               | >150                  |
| <b>Flash Point (CC) (°C)</b>                  | >100                  |
| <b>Specific Gravity</b>                       | 1.08.                 |
| <b>Solubility in Water (kg/m<sup>3</sup>)</b> | Immiscible.           |
| <b>Solubility in Acetone</b>                  | Partially soluble     |
| <b>Vapour Pressure (mmHg @25°C)</b>           | 0.1                   |
| <b>Explosion Limits (%)</b>                   | No data.              |

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**10. STABILITY AND REACTIVITY**

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Non reactive to water.

Non reactive to oxidising agents except for peroxides.

Polymerisation may occur after some time in the absence of air and/or the presence of a metal; However, the product is adequately stabilised to ensure that premature polymerisation does not occur under normal conditions of use.

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**11. TOXICOLOGICAL INFORMATION**

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**Inhalation**

This product is harmful by inhalation. Irritating to respiratory system.

**Skin**

Although it is not a common sensitizer there may be a risk of sensitization on prolonged or

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**11. TOXICOLOGICAL INFORMATION**

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repeated contact with damaged skin.

**Eyes**

This product is an irritant to the eyes.

**Ingestion**

May irritate the digestive tract. Ingestion of large quantities may cause damage to liver or kidneys.

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**12. ECOLOGICAL INFORMATION**

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The product should not go into drains or surface water. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**13. DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with all applicable local and national regulations.

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**14. TRANSPORT INFORMATION**

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|                              |                 |
|------------------------------|-----------------|
| <b>UN Number</b>             | Not classified. |
| <b>Air (IATA)</b>            | Not classified. |
| <b>Sea (IMO)</b>             | Not classified. |
| <b>Road (ADR)/Rail (RID)</b> | Not classified. |

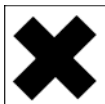
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**15. REGULATORY INFORMATION**

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**Contains**

Cumene Hydroperoxide

**Labelling  
Information**

Harmful

**R phrases**

R20 Harmful by inhalation.  
R36/37 Irritating to eyes and respiratory system.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

S23 Do not breathe vapour.  
S25 Avoid contact with eyes.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S51 Use only in well ventilated areas.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Voluntary Labelling**

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**16. OTHER INFORMATION**

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**MSDS data revised**

19 February 2003

**Hazardous Components in Product for EC****Component Name**

N,N-Diethyl-p-Toluidine  
N,N-Dimethyl-o-Toluidine

Cumene Hydroperoxide 80%

R21/22  
R23  
R23/24/25  
R33

R21/22 Harmful in contact with skin and if swallowed.  
R23 Toxic by inhalation.  
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.  
R33 Danger of cumulative effects.

**R Phrases**

R23/24/25, R33  
R23/24/25, R33,  
R52/53  
R7, R21/22, R23,  
R34, R48/20/22,  
R51/53

**Component Name**R34  
R48/20/22

R51/53

R52/53

R7

**R Phrases**

R34 Causes burns.  
R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R7 May cause fire.

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This safety data sheet was prepared in accordance with Commission Directive 2001/59/EC adapting to technical progress for the 28th time Council Directive 67/548/EEC and Commission Directive 1999/45/EC.

The information in this safety data sheet was obtained from reputable sources and to the best of our knowledge is accurate and current at the mentioned date. Neither Loctite nor its subsidiary companies accept any liability arising out of the use of the information provided here or the use, application or processing of the product(s) described herein. Attention of users is drawn to the possible hazards from improper use of the product(s).

Supersedes Safety Data Sheet No: 6 dated 22/11/01.