

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.

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**1. PRODUCT AND COMPANY INFORMATION**

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<b>Product Code</b>	210251
<b>Trade Name</b>	3471A
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Nature** Epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Epoxy resin	25068-38-6	30.00 - 40.00	R36/38, R43, R51/53	Xi, N
Silicon dioxide - Quartz	14808-60-7 238- 878-4	1.00 - 5.00		

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**3. HAZARD IDENTIFICATION**

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Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**4. FIRST AID MEASURES**

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**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

Give plenty of water to drink. Do not induce vomiting. Obtain medical attention.

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**5. FIRE FIGHTING MEASURES**

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Non flammable product (flash point is greater than 100°C (CC)).

Wear self contained breathing apparatus. Protective clothing should be worn when dealing with fire.

If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled.

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**6. ACCIDENTAL RELEASE MEASURES**

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Ventilate area.

For large spills absorb onto inert absorbent material and place in sealed container for disposal. For small spills wipe up with paper towel and place in container for disposal. Avoid prolonged or

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**6. ACCIDENTAL RELEASE MEASURES**

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repeated skin contact. Do not flush into public water courses.

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**7. HANDLING AND STORAGE**

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**Handling**

Good industrial hygiene practices should be observed.

Use in well ventilated area. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. Safety glasses should be worn.

**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. Store in a well ventilated area in sealed containers.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

Use in well ventilated area. Good industrial hygiene practices should be observed.

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended. Safety glasses should be worn.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Mild.
<b>pH</b>	Not determined.
<b>Boiling Range/Point (°C)</b>	> 100
<b>Flash Point (CC) (°C)</b>	> 100
<b>Specific Gravity</b>	2.3 mg/m <sup>3</sup> at 20 °C.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Immiscible
<b>Vapour Pressure (mmHg @25°C)</b>	Not determined.
<b>Explosion Limits (%)</b>	Not determined.

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**10. STABILITY AND REACTIVITY**

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The product is relatively stable under normal conditions of use.

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**11. TOXICOLOGICAL INFORMATION**

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**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

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**11. TOXICOLOGICAL INFORMATION**

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**Ingestion**

This product is considered to be of low toxicity.

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**12. ECOLOGICAL INFORMATION**

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Toxic 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 local and national regulations.

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**14. TRANSPORT INFORMATION**

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<b>UN Number</b>	None
<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**

Contains epoxy constituents. See information supplied by the manufacturer.

**Labelling Information**

Irritant



Dangerous for the Environment

**R phrases**R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**S phrases**S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.**Voluntary Labelling**

N/A

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**16. OTHER INFORMATION**

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**MSDS data revised**

8 November 2002

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

Epoxy resin

**R Phrases**R36/38, R43,  
R51/53

Silicon dioxide - Quartz

R36/38

R43

R51/53

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further Information may be obtained from:-



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3471A

210251 4.00 IE EA 08.11.2002 MSDS\_IE

### Component Name

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.

Tel: +353-1-4046444.

Fax: +353-1-4510806.

### R Phrases

Prepared by:

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

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: 3 dated 25/1/99.

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.

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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.

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**1. PRODUCT AND COMPANY INFORMATION**

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<b>Product Code</b>	210252
<b>Trade Name</b>	3471B
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Nature** Hardener for epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Bisphenol A	80-05-7 201-245-8	1.00 - 5.00	R36/37/38, R43	Xi
Aminopolyamide	68082-29-1	10.00 - 30.00	R36/38, R43	Xi
Silicon dioxide - Quartz	14808-60-7 238-878-4	1.00 - 5.00		

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**3. HAZARD IDENTIFICATION**

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Irritating to eyes and skin. May cause sensitisation by skin contact.

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**4. FIRST AID MEASURES**

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**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

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**5. FIRE FIGHTING MEASURES**

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Non flammable product (flash point is greater than 100°C (CC)).

Self contained breathing apparatus should be worn when dealing with fire. Protective clothing should be worn when dealing with fire. If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled.

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**6. ACCIDENTAL RELEASE MEASURES**

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Avoid inhalation in unventilated areas.

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**6. ACCIDENTAL RELEASE MEASURES**

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Wear gloves and eye protection. Contain spillage, and absorb onto an inert absorbent such as sand or multisorb and place in a sealed container for supervised disposal. For small spills wipe up with paper towel and place in container for disposal. Wash spillage site thoroughly with soap and water or detergent solution. Do not flush into public water courses.

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**7. HANDLING AND STORAGE**

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**Handling**

Good industrial hygiene practices should be observed.

Avoid contact with skin and eyes. 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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**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

Use in well ventilated area. Good industrial hygiene practices should be observed.

Wear suitable protective clothing, safety glasses and gloves. In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Faint
<b>pH</b>	No data.
<b>Boiling Range/Point (°C)</b>	> 100
<b>Flash Point (CC) (°C)</b>	> 100
<b>Specific Gravity</b>	2.4.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Partially miscible
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (mmHg @25°C)</b>	No data.
<b>Explosion Limits (%)</b>	No data.

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**10. STABILITY AND REACTIVITY**

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The product is relatively stable under normal conditions of use.

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**11. TOXICOLOGICAL INFORMATION**

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**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

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**11. TOXICOLOGICAL INFORMATION**

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**Ingestion**

This material is considered to have low toxicity if swallowed.

Acute oral LD50 (rat) &gt; 5000 mg/kg.

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**12. ECOLOGICAL INFORMATION**

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No information available.

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**13. DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with local and national regulations. Incinerate or bury in legal landfill.

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**14. TRANSPORT INFORMATION**

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<b>UN Number</b>	None
<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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<b>Contains</b>	Bisphenol A Aminopolyamide
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**Labelling  
Information**

Irritant

**R phrases**

R36/38 Irritating to eyes and skin.

**S phrases**

R43 May cause sensitisation by skin contact.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of soap and water.

S37 Wear suitable gloves.

**Voluntary Labelling**

N/A

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**16. OTHER INFORMATION**

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<b>MSDS data revised</b>	8 November 2002
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**Hazardous Components in Product for EC****Component Name**

Bisphenol A

Aminopolyamide

Silicon dioxide - Quartz

R36/37/38

R36/38

R43

**R Phrases**

R36/37/38, R43

R36/38, R43

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

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3471B

210252 6.00 IE EA 08.11.2002 MSDS\_IE

### Component Name

Dublin 24,  
Ireland.

Tel: +353-1-4046444.

Fax: +353-1-4510806.

### R Phrases

Prepared by:

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

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Supersedes Safety Data Sheet No: 5 dated 1/2/99.

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.



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.

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**1. PRODUCT AND COMPANY INFORMATION**

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<b>Product Code</b>	210253
<b>Trade Name</b>	3472A
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Nature** Epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Epoxy resin	25068-38-6	30.00 - 60.00	R36/38, R43, R51/53	Xi, N
Silicon dioxide - Quartz	14808-60-7 238- 878-4	0.50 - 5.00		

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**3. HAZARD IDENTIFICATION**

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Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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**4. FIRST AID MEASURES**

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**First Aid - Inhalation**

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

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

Give plenty of water to drink. Do not induce vomiting. Obtain medical attention.

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**5. FIRE FIGHTING MEASURES**

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Non flammable product (flash point is greater than 100°C (CC)).

Self contained breathing apparatus should be worn when dealing with fire. Protective clothing should be worn when dealing with fire. If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled.

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**6. ACCIDENTAL RELEASE MEASURES**

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Ventilate area.

For large spills absorb onto inert absorbent material and place in sealed container for disposal. For small spills wipe up with paper towel and place in container for disposal. Avoid prolonged or

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**6. ACCIDENTAL RELEASE MEASURES**

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repeated skin contact. Do not flush into public water courses.

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**7. HANDLING AND STORAGE**

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**Handling**

Good industrial hygiene practices should be observed.

Use in well ventilated area. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation. Safety glasses should be worn.

**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. Store in a well ventilated area in sealed containers.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

Use in well ventilated area. Good industrial hygiene practices should be observed.

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended. Safety glasses should be worn.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Epoxy
<b>pH</b>	Not applicable.
<b>Boiling Range/Point (°C)</b>	> 100
<b>Flash Point (CC) (°C)</b>	> 100
<b>Specific Gravity</b>	2.35.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (mmHg @25°C)</b>	No data.
<b>Explosion Limits (%)</b>	No data.

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**10. STABILITY AND REACTIVITY**

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The product is relatively stable under normal conditions of use.

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**11. TOXICOLOGICAL INFORMATION**

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**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

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**11. TOXICOLOGICAL INFORMATION**

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**Ingestion**

This product is considered to be of low toxicity.

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**12. ECOLOGICAL INFORMATION**

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Toxic 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 local and national regulations. Incinerate or bury in legal landfill.

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**14. TRANSPORT INFORMATION**

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<b>UN Number</b>	None
<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**

Contains epoxy constituents. See information supplied by the manufacturer.

**Labelling Information**

Irritant



Dangerous for the Environment

**R phrases**R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.**S phrases**S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.**Voluntary Labelling**

N/A

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**16. OTHER INFORMATION**

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**MSDS data revised**

8 November 2002

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

Epoxy resin

**R Phrases**R36/38, R43,  
R51/53

Silicon dioxide - Quartz

R36/38

R43

R51/53

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further Information may be obtained from:-



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3472A

210253 3.00 IE EA 08.11.2002 MSDS\_IE

### Component Name

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.

Tel: +353-1-4046444.

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### R Phrases

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Health & Regulatory Affairs - Europe

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Supersedes Safety Data Sheet No: 2 dated 1/2/99.

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.

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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.

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**1. PRODUCT AND COMPANY INFORMATION**

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<b>Product Code</b>	210254
<b>Trade Name</b>	3472B
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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

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**2. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Nature** Hardener for epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Bisphenol A	80-05-7 201-245-8	0.10 - 5.00	R36/37/38, R43	Xi
Aminopolyamide	68082-29-1	10.00 - 25.00	R36/38, R43	Xi
Silicon dioxide - Quartz	14808-60-7 238-878-4	1.00 - 5.00		

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**3. HAZARD IDENTIFICATION**

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Irritating to eyes and skin. May cause sensitisation by skin contact.

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**4. FIRST AID MEASURES**

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**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

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**5. FIRE FIGHTING MEASURES**

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Non flammable product (flash point is greater than 100°C (CC)).

Self contained breathing apparatus should be worn when dealing with fire. Protective clothing should be worn when dealing with fire. If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled.

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**6. ACCIDENTAL RELEASE MEASURES**

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Avoid inhalation in unventilated areas.

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**6. ACCIDENTAL RELEASE MEASURES**

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Wear gloves and eye protection. Contain spillage, and absorb onto an inert absorbent such as sand or multisorb and place in a sealed container for supervised disposal. For small spills wipe up with paper towel and place in container for disposal. Wash spillage site thoroughly with detergent and water. Do not flush into public water courses.

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**7. HANDLING AND STORAGE**

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**Handling**

Good industrial hygiene practices should be observed.

Avoid contact with skin and eyes. 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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**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

Use in well ventilated area. Good industrial hygiene practices should be observed.

Wear suitable protective clothing, safety glasses and gloves. In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Physical State</b>	Viscous liquid.
<b>Colour</b>	Grey.
<b>Odour</b>	Mild.
<b>pH</b>	No data.
<b>Boiling Range/Point (°C)</b>	>100
<b>Flash Point (CC) (°C)</b>	> 100
<b>Specific Gravity</b>	2.45.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Partially miscible
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (mmHg @25°C)</b>	No data.
<b>Explosion Limits (%)</b>	No data.

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**10. STABILITY AND REACTIVITY**

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The product is relatively stable under normal conditions of use.

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**11. TOXICOLOGICAL INFORMATION**

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**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

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**11. TOXICOLOGICAL INFORMATION**

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**Ingestion**

This material is considered to have low toxicity if swallowed. Acute oral LD50 (rat) > 5000 mg/kg.

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**12. ECOLOGICAL INFORMATION**

---

No information available.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations. Incinerate or bury in legal landfill.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

**Contains** Bisphenol A  
Aminopolyamide

**Labelling  
Information**

Irritant

**R phrases**

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

**S phrases**

S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
N/A

**Voluntary Labelling**

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 8 November 2002

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

Bisphenol A  
Aminopolyamide  
Silicon dioxide - Quartz

R36/37/38  
R36/38  
R43

**R Phrases**

R36/37/38, R43  
R36/38, R43

R36/37/38 Irritating to eyes, respiratory system and skin.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3472B

210254 5.00 IE EA 08.11.2002 MSDS\_IE

### Component Name

Tel: +353-1-4046444.  
Fax: +353-1-4510806.

### R Phrases

Prepared by:

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

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: 4 dated 1/2/99.

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.

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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>	210255
<b>Trade Name</b>	3473A
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Epoxy resin	25068-38-6	30.00 - 40.00	R36/38, R43, R51/53	Xi, N
Silicon dioxide - Quartz	14808-60-7 238- 878-4	1.00 - 5.00		

---

**3. HAZARD IDENTIFICATION**

---

Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**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 with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

---

**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. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled. Self contained breathing apparatus should be worn when dealing with fire.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

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.

---

**7. HANDLING AND STORAGE**

---

**Handling**

Avoid contact with skin and eyes.

**Storage**

Keep container well sealed and protect from humidity at temperatures between 15 - 25°C in a well-ventilated area.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Epoxy
<b>pH</b>	Not determined.
<b>Boiling Range/Point (°C)</b>	Not determined.
<b>Flash Point (CC) (°C)</b>	>110 (Pensky-Martens)
<b>Specific Gravity</b>	2300 kg/m <sup>3</sup> .
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (mmHg @25°C)</b>	Not determined.
<b>Explosion Limits (%)</b>	Not determined.

---

**10. STABILITY AND REACTIVITY**

---

The product is relatively stable under normal conditions of use.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

**Ingestion**

This product is considered to be of low toxicity.

---

**12. ECOLOGICAL INFORMATION**

---

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations. Incinerate or bury in legal landfill.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

**Contains** Contains epoxy constituents. See information supplied by the manufacturer.

**Labelling Information**



Irritant



Dangerous for the Environment

**R phrases**

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Voluntary Labelling**

N/A

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 8 November 2002

**Hazardous Components in Product for EC**

**Component Name**

Epoxy resin

**R Phrases**

R36/38, R43,  
R51/53

Silicon dioxide - Quartz

R36/38

R36/38 Irritating to eyes and skin.

R43

R43 May cause sensitisation by skin contact.

R51/53

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3473A

210255 5.00 IE EA 08.11.2002 MSDS\_IE

### Component Name

Tel: +353-1-4046444.

Fax: +353-1-4510806.

### R Phrases

Prepared by:

Dr. Sandra Wade

Senior HRA Specialist

Health & Regulatory Affairs - Europe

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: 4 dated 26/7/99.

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.

---

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>	210256
<b>Trade Name</b>	3473B
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Hardener for epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
2,4,6-Tris (Dimethylaminomethyl) phenol	90-72-2 202-013-9	1.00 - 5.00	R22, R36/38	Xn
Silicon dioxide - Quartz	14808-60-7 238-878-4	1.00 - 5.00		

---

**3. HAZARD IDENTIFICATION**

---

Not classified as hazardous. Slightly irritating to eyes.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

---

**5. FIRE FIGHTING MEASURES**

---

Non flammable product (flash point is greater than 100°C (CC)). Self contained breathing apparatus should be worn when dealing with fire. If product is involved in fire extinguish with dry powder, foam or carbon dioxide. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

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.

---

**7. HANDLING AND STORAGE**

---

**Handling**

No special handling requirements. Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

**Storage**

Keep container well sealed and protect from humidity at temperatures between 15 - 25°C in a well-ventilated area.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

**Occupational exposure limits****Silicon dioxide - Quartz**ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

Good industrial hygiene practices should be observed. Gloves and safety glasses should be worn.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Characteristic.
<b>pH</b>	>10
<b>Boiling Range/Point (°C)</b>	Not determined.
<b>Flash Point (CC) (°C)</b>	>110
<b>Specific Gravity</b>	2000kg/m <sup>3</sup> .
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Partially soluble.
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (mmHg @25°C)</b>	Not determined.
<b>Explosion Limits (%)</b>	Not determined.

---

**10. STABILITY AND REACTIVITY**

---

The product is relatively stable under normal conditions of use.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

May cause irritation to respiratory system.

**Skin**

Prolonged contact may cause some irritation.

**Eyes**

May cause irritation to the eyes.

**Ingestion**

This product is considered to be of low toxicity.

---

**12. ECOLOGICAL INFORMATION**

---

No information available.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

<b>Contains</b>	N/A
<b>Labelling Information</b>	
<b>R phrases</b>	None.
<b>S phrases</b>	None.
<b>Voluntary Labelling</b>	Safety data sheet available for professional user on request.

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 11 November 2002

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

2,4,6-Tris (Dimethylaminomethyl) phenol  
Silicon dioxide - Quartz

**R Phrases**

R22, R36/38

R22

R22 Harmful if swallowed.

R36/38

R36/38 Irritating to eyes and skin.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.

Tel: +353-1-4046444.

Fax: +353-1-4510806.

Prepared by:

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

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Supersedes Safety Data Sheet No: 3 dated 11/9/98.

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.



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3473B

210256 4.00 IE EA 11.11.2002 MSDS\_IE



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>	210259
<b>Trade Name</b>	3475A
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Epoxy resin	25068-38-6	30.00 - 60.00	R36/38, R43, R51/53	Xi, N
Silicon dioxide - Quartz	14808-60-7 238- 878-4	1.00 - 5.00		

---

**3. HAZARD IDENTIFICATION**

---

Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

---

**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. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled. Self contained breathing apparatus should be worn when dealing with fire.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

For small spills wipe up with paper towel and place in container for disposal. Wash spillage site thoroughly with soap and water or detergent solution. Try to prevent the material from entering drains or water courses.

---

**7. HANDLING AND STORAGE**

---

**Handling**

Avoid contact with skin and eyes.

**Storage**

Keep container well sealed and protect from humidity at temperatures between 15 - 25°C in a well-ventilated area.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Epoxy
<b>pH</b>	Not determined.
<b>Boiling Range/Point (°C)</b>	Not determined.
<b>Flash Point (CC) (°C)</b>	> 110
<b>Specific Gravity</b>	1760 kg/m <sup>3</sup> .
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Soluble
<b>Vapour Pressure (mmHg @25°C)</b>	Not determined.
<b>Explosion Limits (%)</b>	Not determined.

---

**10. STABILITY AND REACTIVITY**

---

The product is relatively stable under normal conditions of use.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

**Ingestion**

This product is considered to be of low toxicity.

---

**12. ECOLOGICAL INFORMATION**

---

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations. Incinerate or bury in legal landfill.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None.
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

**Contains**

Contains epoxy constituents. See information supplied by the manufacturer.

**Labelling Information**

Irritant



Dangerous for the Environment

**R phrases**

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Voluntary Labelling**

N/A

---

**16. OTHER INFORMATION**

---

**MSDS data revised**

22 November 2002

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

Epoxy resin

**R Phrases**

R36/38, R43,  
R51/53

Silicon dioxide - Quartz

R36/38

R36/38 Irritating to eyes and skin.

R43

R43 May cause sensitisation by skin contact.

R51/53

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3475A

210259 5.00 IE EA 22.11.2002 MSDS\_IE

### Component Name

Tel: +353-1-4046444.

Fax: +353-1-4510806.

### R Phrases

Prepared by:

Dr. Sandra Wade

Senior HRA Specialist

Health & Regulatory Affairs - Europe

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: 4 dated 27/2/02.

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.

---

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>	210260
<b>Trade Name</b>	3475B
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Hardener for epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Bisphenol A	80-05-7 201-245-8	1.00 - 5.00	R36/37/38, R43	Xi
Aminopolyamide	68082-29-1	10.00 - 30.00	R36/38, R43	Xi
Silicon dioxide - Quartz	14808-60-7 238-878-4	1.00 - 5.00		

---

**3. HAZARD IDENTIFICATION**

---

Irritating to eyes and skin. May cause sensitisation by skin contact.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

---

**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. Toxic fumes such as oxides of carbon may be released on incineration and these should not be inhaled. Self contained breathing apparatus should be worn when dealing with fire.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

For small spills wipe up with paper towel and place in container for disposal. Wash spillage site thoroughly with soap and water or detergent solution.

---

**7. HANDLING AND STORAGE**

---

**Handling**

Avoid contact with skin and eyes.

**Storage**

Keep container well sealed and protect from humidity at temperatures between 15 - 25°C in a well-ventilated area.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

**Occupational exposure limits****Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m<sup>3</sup> 8h TWA.

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Paste.
<b>Colour</b>	Grey.
<b>Odour</b>	Characteristic.
<b>pH</b>	Not determined.
<b>Boiling Range/Point (°C)</b>	Not determined.
<b>Flash Point (CC) (°C)</b>	>110
<b>Specific Gravity</b>	1750kg/m <sup>3</sup> .
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Miscible
<b>Vapour Pressure (mmHg @25°C)</b>	Not determined.
<b>Explosion Limits (%)</b>	Not determined.

---

**10. STABILITY AND REACTIVITY**

---

The product is relatively stable under normal conditions of use.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

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

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

**Ingestion**

This product is considered to be of low toxicity. Acute oral LD50 (rat) > 5000 mg/kg.

---

**12. ECOLOGICAL INFORMATION**

---

No information available.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations. Incinerate or bury in legal landfill.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

<b>Contains</b>	Aminopolyamide Bisphenol A
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**Labelling  
Information**

Irritant

**R phrases**R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.**S phrases**S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
N/A**Voluntary Labelling**

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 22 November 2002**Hazardous Components in Product for EC****Component Name**Bisphenol A  
Aminopolyamide  
Silicon dioxide - Quartz  
R36/37/38  
R36/38  
R43**R Phrases**R36/37/38, R43  
R36/38, R43R36/37/38 Irritating to eyes, respiratory system and skin.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.Tel: +353-1-4046444.  
Fax: +353-1-4510806.

Prepared by:



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

3475B

210260 6.00 IE EA 22.11.2002 MSDS\_IE

### Component Name

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

### R Phrases

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: 4 dated 27/2/02.

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.

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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>	301175
<b>Trade Name</b>	Metal Set Syringe Part A
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Epoxy resin	25068-38-6	30.00 - 60.00	R36/38, R43	Xn
Inorganic filler		10.00 - 30.00	R20/21/22	
Silica, Fumed		0.10 - 1.00		

---

**3. HAZARD IDENTIFICATION**

---

Irritating to eyes and skin. May cause sensitisation by skin contact.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

---

**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.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

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.

---

**7. HANDLING AND STORAGE**

---

**Handling**

Avoid contact with skin and eyes.

---

**7. HANDLING AND STORAGE**

---

**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.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended. Good industrial hygiene practices should be observed.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Paste.
<b>Colour</b>	White.
<b>Odour</b>	Faint
<b>pH</b>	N/A
<b>Boiling Range/Point (°C)</b>	N/A
<b>Flash Point (CC) (°C)</b>	> 200
<b>Specific Gravity</b>	1.2g/ml at 20 °C.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Partially miscible
<b>Vapour Pressure (mmHg @25°C)</b>	N/A
<b>Explosion Limits (%)</b>	N/A

---

**10. STABILITY AND REACTIVITY**

---

The product is relatively stable under normal conditions of use.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

Due to the low volatility of the product there are no hazards associated with inhalation under normal conditions of use.

**Skin**

It is irritating and sensitising to the skin.

**Eyes**

This product is an irritant to the eyes.

**Ingestion**

This product is considered to be of low toxicity having an acute oral LD50 (rat) >5000mg/kg by analogy to other similar products.

---

**12. ECOLOGICAL INFORMATION**

---

No information available.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations. Incineration under controlled conditions recommended.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

**Contains** Contains epoxy constituents. See information supplied by the manufacturer.

**Labelling Information**



Irritant

**R phrases**

R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.

**S phrases**

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
N/A

**Voluntary Labelling**

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 27 March 1998

**Hazardous Components in Product for EC**

**Component Name**

Epoxy resin  
Inorganic filler  
Silica, Fumed  
R20/21/22  
R36/38  
R43

**R Phrases**

R36/38, R43  
R20/21/22

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.

Tel: +353-1-4046444.

Fax: +353-1-4510806.

Prepared by:

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

**Metal Set Syringe Part A**  
301175 4.00 IE EA 27.03.1998 MSDS\_IE

### Component Name

### R Phrases

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).

---

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>	301176
<b>Trade Name</b>	Metal Set Syringe Part B
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Hardener for epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Silica, Fumed		1.00 - 5.00		
Polymercaptan		30.00 - 60.00		
2,4,6-Tris (Dimethylaminomethyl) phenol	90-72-2	1.00 - 5.00	R22, R36/38	
Inorganic Filler		5.00 - 10.00		

---

**3. HAZARD IDENTIFICATION**

---

This product is not classified as hazardous.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Should not be a problem as product is of low volatility. However, if feeling unwell remove patient to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**First Aid - Ingestion**

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

---

**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. Self contained breathing apparatus should be worn when dealing with fire.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

For small spills wipe up with paper towel and place in container for disposal. Wash spillage site thoroughly with soap and water or detergent solution.

---

**7. HANDLING AND STORAGE**

---

**Handling**

Avoid contact with skin and eyes.

**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.

---

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

---

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended. Good industrial hygiene practices should be observed.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

<b>Physical State</b>	Paste.
<b>Colour</b>	Black.
<b>Odour</b>	Mild.
<b>pH</b>	N/A
<b>Boiling Range/Point (°C)</b>	N/A
<b>Flash Point (CC) (°C)</b>	> 200
<b>Specific Gravity</b>	Approx. 1.2g/ml at 20 °C.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Partially miscible
<b>Vapour Pressure (mmHg @25°C)</b>	N/A
<b>Explosion Limits (%)</b>	N/A

---

**10. STABILITY AND REACTIVITY**

---

The product is relatively stable under normal conditions of use.

---

**11. TOXICOLOGICAL INFORMATION**

---

**Inhalation**

Due to the low volatility of the product there are no hazards associated with inhalation under normal conditions of use.

**Skin**

This Product is of low toxicity and is not easily absorbed through the skin.

**Eyes**

Not considered to be an eye irritant.

**Ingestion**

This product is considered to be of low toxicity having an acute oral LD50 (rat) >5000mg/kg by analogy to other similar products.

---

**12. ECOLOGICAL INFORMATION**

---

No information available.

---

**13. DISPOSAL CONSIDERATIONS**

---

Dispose of in accordance with local and national regulations. Incinerate or bury in legal landfill.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

<b>Contains</b>	N/A
<b>Labelling Information</b>	
<b>R phrases</b>	N/A
<b>S phrases</b>	N/A
<b>Voluntary Labelling</b>	N/A

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 27 March 1998

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

Silica, Fumed  
Polymercaptan  
2,4,6-Tris (Dimethylaminomethyl) phenol  
Inorganic Filler

**R Phrases**

R22, R36/38

R22 R22 Harmful if swallowed.  
R36/38 R36/38 Irritating to eyes and skin.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.

Tel: +353-1-4046444.  
Fax: +353-1-4510806.

Prepared by:

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

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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>	307336
<b>Trade Name</b>	Metal Set Strip
<b>Manufacturer/Supplier</b>	Henkel Loctite Adhesives Ltd.
<b>Address</b>	Watchmead, Welwyn Garden City, Herts., AL71JB. 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**

---

**Nature** Epoxy resin.

**Hazardous Components in Product for EC**

<b>Component Name</b>	<b>CAS / EINEC</b>	<b>Concentration</b>	<b>R Phrases</b>	<b>Classification</b>
Epoxy Novolac Resin	28064-14-4	5.00 - 20.00	R36/38, R43	Xi
Liquid Epoxy resin	25068-38-6	10.00 - 30.00	R36/38, R43, R51/53	Xi, N

---

**3. HAZARD IDENTIFICATION**

---

Irritating to eyes and skin. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

---

**4. FIRST AID MEASURES**

---

**First Aid - Inhalation**

Remove affected person to fresh air.

**First Aid - Skin**

Wash with plenty of soap and water. If irritation persists, seek medical advice.

**First Aid - Eyes**

Flush eyes with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

**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. Self contained breathing apparatus should be worn when dealing with fire.

---

**6. ACCIDENTAL RELEASE MEASURES**

---

Wear gloves and eye protection. Scrape up spilled material and place in sealed container for disposal.



---

## 7. HANDLING AND STORAGE

---

**Handling**

Avoid contact with skin and eyes.

**Storage**

Store away from heat in a cool, well-ventilated area. Store away from direct sunlight.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

---

In circumstances where there is a potential for prolonged or repeated skin contact, the use of disposable gloves (polyethylene, natural rubber or equivalent ester-resistant material) is recommended. Safety glasses should be worn. Good industrial hygiene practices should be observed. Use in well ventilated area.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

---

<b>Physical State</b>	Putty
<b>Colour</b>	Grey.
<b>Odour</b>	Mild.
<b>pH</b>	Not determined.
<b>Boiling Range/Point (°C)</b>	Not determined.
<b>Flash Point (CC) (°C)</b>	> 200
<b>Specific Gravity</b>	1.65.
<b>Solubility in Water (kg/m<sup>3</sup>)</b>	Immiscible.
<b>Solubility in Acetone</b>	Not determined.
<b>Vapour Pressure (mmHg @25°C)</b>	Not determined.
<b>Explosion Limits (%)</b>	Not determined.

---

## 10. STABILITY AND REACTIVITY

---

The product is relatively stable under normal conditions of use. Avoid contact with strong acids, strong bases, strong oxidising agents and strong reducing agents.

---

## 11. TOXICOLOGICAL INFORMATION

---

**Inhalation**

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

**Skin**

It is irritating and sensitising to the 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.

---

## 12. ECOLOGICAL INFORMATION

---

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

---

## 13. DISPOSAL CONSIDERATIONS

---

Dispose of in accordance with local and national regulations.

---

**14. TRANSPORT INFORMATION**

---

<b>UN Number</b>	None
<b>Air (IATA)</b>	Not classified.
<b>Sea (IMO)</b>	Not classified.
<b>Road (ADR)/Rail (RID)</b>	Not classified.

---

**15. REGULATORY INFORMATION**

---

**Contains** Contains epoxy constituents. See information supplied by the manufacturer.

**Labelling Information**



Irritant

**R phrases**

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S phrases**

S24 Avoid contact with skin.  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S28 After contact with skin, wash immediately with plenty of soap and water.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.  
N/A

**Voluntary Labelling**

---

**16. OTHER INFORMATION**

---

**MSDS data revised** 24 October 2003

**Hazardous Components in Product for EC**

**Component Name**

Epoxy Novolac Resin  
Liquid Epoxy resin

**R Phrases**

R36/38, R43  
R36/38, R43,  
R51/53

R36/38  
R43  
R51/53

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further Information may be obtained from:-

Loctite Corporation,  
Health and Regulatory Affairs - Europe,  
Tallaght Business Park,  
Whitestown,  
Dublin 24,  
Ireland.

Tel: +353-1-4046444.  
Fax: +353-1-4510806.

Prepared by:



## Loctite Corporation

Environmental Health & Safety Affairs  
Health & Regulatory Affairs - Europe

## SAFETY DATA SHEET

Metal Set Strip  
307336 3.00 IE EA 24.10.2003 MSDS\_IE

### Component Name

Dr. Sandra Wade  
Senior HRA Specialist  
Health & Regulatory Affairs - Europe

### R Phrases

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).

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.

Supersedes Safety Data Sheet No: 2 dated 20/4/99.

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