

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

Product Code	210255
Trade Name	3473A
Manufacturer/Supplier	Henkel Loctite Adhesives Ltd.
Address	Watchmead, Welwyn Garden City, Herts., AL71JB. UK
Phone Number	01 707 358800
Fax Number	01 707 358900
Emergency Phone Number	+353-1-4599301/+353-87-2629625/+353-1-4046444

2. COMPOSITION / INFORMATION ON INGREDIENTS

Nature Epoxy resin.

Hazardous Components in Product for EC

Component Name	CAS / EINEC	Concentration	R Phrases	Classification
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/m³ 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

Physical State	Paste.
Colour	Grey.
Odour	Epoxy
pH	Not determined.
Boiling Range/Point (°C)	Not determined.
Flash Point (CC) (°C)	>110 (Pensky-Martens)
Specific Gravity	2300 kg/m ³ .
Solubility in Water (kg/m³)	Immiscible.
Solubility in Acetone	Miscible
Vapour Pressure (mmHg @25°C)	Not determined.
Explosion Limits (%)	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

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

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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

Product Code	210256
Trade Name	3473B
Manufacturer/Supplier	Henkel Loctite Adhesives Ltd.
Address	Watchmead, Welwyn Garden City, Herts., AL71JB. UK
Phone Number	01 707 358800
Fax Number	01 707 358900
Emergency Phone Number	+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

Component Name	CAS / EINEC	Concentration	R Phrases	Classification
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/m³ 8h TWA.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste.
Colour	Grey.
Odour	Characteristic.
pH	>10
Boiling Range/Point (°C)	Not determined.
Flash Point (CC) (°C)	>110
Specific Gravity	2000kg/m ³ .
Solubility in Water (kg/m³)	Partially soluble.
Solubility in Acetone	Miscible
Vapour Pressure (mmHg @25°C)	Not determined.
Explosion Limits (%)	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

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

15. REGULATORY INFORMATION

Contains	N/A
Labelling Information	
R phrases	None.
S phrases	None.
Voluntary Labelling	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
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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

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