

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	210253
Trade Name	3472A
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 - 60.00	R36/38, R43, R51/53	Xi, N
Silicon dioxide - Quartz	14808-60-7 238- 878-4	0.50 - 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

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

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. 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.

6. ACCIDENTAL RELEASE MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

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

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits**Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m³ 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Paste.
Colour	Grey.
Odour	Epoxy
pH	Not applicable.
Boiling Range/Point (°C)	> 100
Flash Point (CC) (°C)	> 100
Specific Gravity	2.35.
Solubility in Water (kg/m³)	Immiscible.
Solubility in Acetone	Miscible
Vapour Pressure (mmHg @25°C)	No data.
Explosion Limits (%)	No data.

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.

11. TOXICOLOGICAL INFORMATION

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 phrasesR36/38 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 PhrasesR36/38, 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.

Fax: +353-1-4510806.

R Phrases

Prepared by:

Dr. Sandra Wade
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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: 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.

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	210254
Trade Name	3472B
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
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		

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. Seek medical advice.

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. 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.

6. ACCIDENTAL RELEASE MEASURES

Avoid inhalation in unventilated areas.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits**Silicon dioxide - Quartz**

ACGIH: TLV 0.05mg/m³ 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Viscous liquid.
Colour	Grey.
Odour	Mild.
pH	No data.
Boiling Range/Point (°C)	>100
Flash Point (CC) (°C)	> 100
Specific Gravity	2.45.
Solubility in Water (kg/m³)	Partially miscible
Solubility in Acetone	Miscible
Vapour Pressure (mmHg @25°C)	No data.
Explosion Limits (%)	No data.

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.

11. TOXICOLOGICAL INFORMATION

Ingestion

This material is considered to have low toxicity if swallowed. 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

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

15. REGULATORY INFORMATION

Contains Bisphenol A
Aminopolyamide

**Labelling
Information**

Irritant

R phrases**S phrases**

R36/38 Irritating to eyes and skin.
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.
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.
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R Phrases

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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.
