



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

Page 1 of 1

Loctite 3430 part a

sds no. : 298562

V003.0

Revision: 20.05.2010

printing date: 04.01.2011

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

**Trade name:**

Loctite 3430 part a

**Intended use:**

Epoxy adhesive

**Company name:**

Henkel Limited  
Technologies House  
Wood Lane End  
HP2 4RQ Hemel Hempstead  
  
Great Britain

Phone: +44 (0)1442 278000

Fax-no.: +44 (0)1442 278071

**E-mail address of person responsible for Safety Data Sheet:**

ua-productsafety.uk@uk.henkel.com

**Emergency information:**

24 Hours Emergency Tel: +44 (0)1442 278497

### 2. Hazards identification

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.

### 3. Composition / information on ingredients

**General chemical description:**

Epoxy resin

**Declaration of ingredients according to (EC) No 1907/2006:**

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
Bisphenol-A epichlorhydrin resin MW ≤ 700 25068-38-6	500-033-5	30 - 40 %	R43 Xi - Irritant; R36/38 N - Dangerous for the environment; R51, R53
RP Bisphenol F-epichlorhydrin resin, MW≤700 28064-14-4		30 - 40 %	Xi - Irritant; R36/38, R43 N - Dangerous for the environment; R51/53
Bisphenol A diglycidyl ether polymer 25085-99-8		20 - 30 %	N - Dangerous for the environment; R51/53 Xi - Irritant; R36/38, R43

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

#### 4. First aid measures

**Inhalation:**

Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:**

Rinse with running water and soap.  
Seek medical advice.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.  
Seek medical advice.

#### 5. Fire fighting measures

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Special protection equipment for firefighters:**

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Hazardous combustion products:**

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

#### 6. Accidental release measures

**Personal precautions:**

Avoid skin and eye contact.

**Environmental precautions:**

Do not let product enter drains.

**Clean-up methods:**

For small spills wipe up with paper towel and place in container for disposal.  
For large spills absorb onto inert absorbent material and place in sealed container for disposal.  
Wash spillage site thoroughly with soap and water or detergent solution.

#### 7. Handling and storage

**Handling:**

Use only in well-ventilated areas.  
Avoid skin and eye contact.  
Prolonged or repeated skin contact should be avoided to minimise any risk of sensitisation.

**Storage:**

Store in a cool, well-ventilated place.

#### 8. Exposure controls / personal protection

**Components with specific control parameters for workplace:**

**Respiratory protection:**

Ensure adequate ventilation.  
Do not inhale vapors and fumes.

**Hand protection:**

Avoid skin-contact.

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (IIR;  $\geq 0.4$  mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (IIR;  $\geq 0.4$  mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Avoid eye contact.

Tightly fitting safety goggles

**General protection and hygiene measures:**

Good industrial hygiene practices should be observed.

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

Appearance	liquid Liquid transparent
Odor:	Odorless

**Phys./chem. properties:**

Flash point	> 100,0 °C (> 212 °F)
Density ( $\rho$ )	1,17 g/cm <sup>3</sup>
Solubility (qualitative) (Solvent: Water)	Not miscible
VOC content (2004/42/EC)	< 3,00 %

**10. Stability and reactivity****Conditions to avoid:**

Stable under normal conditions of storage and use.

**Materials to avoid:**

Reaction with strong acids.

Reacts with strong oxidants.

**11. Toxicological information****Oral toxicity:**

May cause irritation to the digestive tract.

**Inhalative toxicity:**

May cause irritation to respiratory system.

**Skin irritation:**

Irritating to the skin.

**Eye irritation:**

Irritating to eyes.

**Sensitizing:**

May cause sensitization by skin contact.

**12. Ecological information****Mobility:**

Cured adhesives are immobile.

**Ecotoxicity:**

Hazardous components CAS-No.	Species	Exposure time	Value type	Value
Bisphenol-A epichlorhydrin resin MW <= 700 25068-38-6	Trout family (Salmonidae)	96 h	LC 50	3,6 mg/l
RP Bisphenol F-epichlorohydrin resin, MW<=700 28064-14-4	Ide, silver or golden orfe (Leuciscus idus)	96 h	LC 50	5,7 mg/l
Bisphenol A diglycidyl ether polymer 25085-99-8	Trout family (Salmonidae)	96 h	LC 50	1,5 - 7,7 mg/l

**General ecological information:**

Do not empty into drains / surface water / ground water.

Toxic to aquatic organisms

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

**13. Disposal considerations****Product disposal:**

Dispose of in accordance with local and national regulations.

**Waste code( ):**

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

**Disposal of uncleaned packages:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Disposal must be made according to official regulations.

**14. Transport information****Road transport ADR:**

Class:	9
Packaging group:	III
Classification code:	M6
Hazard ident. number:	90
UN no.:	3082
Label:	9
Technical name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-F Epichlorhydrine resin,Bisphenol-A Epichlorhydrine resin)
Tunnelcode:	(E)

**Railroad transport RID:**

Class: 9  
Packaging group: III  
Classification code: M6  
Hazard ident. number: 90  
UN no.: 3082  
Label: 9  
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Bisphenol-F Epichlorhydrine resin,Bisphenol-A  
Epichlorhydrine resin)  
Tunnelcode:

**Inland water transport ADN:**

Class: 9  
Packaging group: III  
Classification code: M6  
Hazard ident. number:  
UN no.: 3082  
Label: 9  
Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Bisphenol-F Epichlorhydrine resin,Bisphenol-A  
Epichlorhydrine resin)

**Marine transport IMDG:**

Class: 9  
Packaging group: III  
UN no.: 3082  
Label: 9  
EmS: F-A ,S-F  
Seawater pollutant: Marine pollutant  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S. (Bisphenol-F Epichlorhydrine resin,Bisphenol-A  
Epichlorhydrine resin)

**Air transport IATA:**

Class: 9  
Packaging group: III  
Packaging instructions (passenger) 914  
Packaging instructions (cargo) 914  
UN no.: 3082  
Label: 9  
Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-F  
Epichlorhydrine resin,Bisphenol-A Epichlorhydrine resin)

**15. Regulations - classification and identification****Indication of danger:**

Xi - Irritant

N - Dangerous for the  
environment

**Contains**

Bisphenol-A epichlorhydrin resin MW ≤ 700,  
RP Bisphenol F-epichlorhydrin resin, MW≤700,  
Bisphenol A diglycidyl ether polymer

**Risk 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.

**Safety 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 water and soap.  
S37 Wear suitable gloves.  
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Additional labeling:**

Contains epoxy constituents. See information supplied by the manufacturer.  
For consumer use only: S2 Keep out of the reach of children  
S46 If swallowed, seek medical advice immediately and show this container or label.

## 16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R36/38 Irritating to eyes and skin.  
R43 May cause sensitisation by skin contact.  
R51 Toxic to aquatic organisms.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R53 May cause long-term adverse effects in the aquatic environment.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.



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

Page 1 of 1

loctite 3430 Part B

sds no. : 205861

V002.0

Revision: 20.05.2010

printing date: 04.01.2011

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

**Trade name:**

loctite 3430 Part B

**Intended use:**

Epoxy Hardener

**Company name:**

Henkel Limited  
Technologies House  
Wood Lane End  
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (0)1442 278000

Fax-no.: +44 (0)1442 278071

**E-mail address of person responsible for Safety Data Sheet:**

ua-productsafety.uk@uk.henkel.com

**Emergency information:**

24 Hours Emergency Tel: +44 (0)1442 278497

### 2. Hazards identification

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.

### 3. Composition / information on ingredients

**Declaration of ingredients according to (EC) No 1907/2006:**

Hazardous components CAS-No.	EINECS ELINCS	content	Classification
2,2'-[1,2-ethanediylbis(oxy)]bis(ethanethiol) 14970-87-7	239-044-2	10 - 20 %	Xn - Harmful; R20, R22 N - Dangerous for the environment; R51/53
N,N-Dimethyldipropyltri-amine 10563-29-8	234-148-4	1 - 10 %	C - Corrosive; R34 Xn - Harmful; R21/22 Xi - Irritant; R43
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	224-207-2	1 - 5 %	C - Corrosive; R34, R52/53

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.

Substances without classification may have community workplace exposure limits available.

#### 4. First aid measures

**Inhalation:**

Move to fresh air.  
In case of adverse health effects seek medical advice.

**Skin contact:**

Rinse with running water and soap.  
Seek medical advice.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes). Seek medical attention if necessary.

**Ingestion:**

Rinse out mouth, drink 1-2 glasses of water, do not induce vomiting.  
Seek medical advice.

#### 5. Fire fighting measures

**Suitable extinguishing media:**

Carbon dioxide, foam, powder

**Special protection equipment for firefighters:**

Wear self-contained breathing apparatus.  
Wear protective equipment.

#### 6. Accidental release measures

**Personal precautions:**

Ensure adequate ventilation.  
Avoid skin and eye contact.  
Wear protective equipment.

**Environmental precautions:**

Do not let product enter drains.

**Clean-up methods:**

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

#### 7. Handling and storage

**Handling:**

Avoid skin and eye contact.  
Use only in well-ventilated areas.  
Gloves and safety glasses should be worn  
Do not inhale vapors and fumes.

**Storage:**

Store in sealed original container.  
Store in a cool, well-ventilated place.

#### 8. Exposure controls / personal protection

**Components with specific control parameters for workplace:**

**Respiratory protection:**

Ensure adequate ventilation.  
Do not inhale vapors and fumes.



**Hand protection:**

Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.

The use of chemical resistant gloves such as Nitrile are recommended.

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (IIR;  $\geq 0.4$  mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (IIR;  $\geq 0.4$  mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

**Eye protection:**

Tightly fitting safety goggles

Avoid eye contact.

**Skin protection:**

Wear suitable protective clothing.

**General protection and hygiene measures:**

Good industrial hygiene practices should be observed.

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

Appearance	Liquid Clear
Odor:	Characteristic

**Phys./chem. properties:**

Flash point	> 100,0 °C (> 212 °F)
Density ( $\rho$ )	1,1 g/cm <sup>3</sup>
Solubility (qualitative) (Solvent: Acetone)	Soluble
VOC content (2004/42/EC)	< 25 % (As defined in the Council Directive 2004/42/EC)

**10. Stability and reactivity****Conditions to avoid:**

Stable under normal conditions of storage and use.

Avoid contact with acids and oxidizing agents.

Avoid contact with water.

**11. Toxicological information****Oral toxicity:**

May cause irritation to the digestive tract.

**Skin irritation:**

Irritating to the skin.

**Eye irritation:**

Irritating to eyes.

**Sensitizing:**

May cause sensitization by skin contact.

## 12. Ecological information

**Mobility:**

Cured adhesives are immobile.

**General ecological information:**

Do not empty into drains / surface water / ground water.

Harmful to aquatic organisms.

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

## 13. Disposal considerations

**Product disposal:**

Dispose of in accordance with local and national regulations.

**Waste code(EWC ):**

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances

**Disposal of uncleaned packages:**

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

## 14. Transport information

**General information:**

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

## 15. Regulations - classification and identification

**Indication of danger:**

Xi - Irritant



**Contains**

N,N-Dimethyldipropyltriamine

**Risk 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.

**Safety 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 water and soap.

S37 Wear suitable gloves.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

**Additional labeling:**

For consumer use only: S2 Keep out of the reach of children

S46 If swallowed, seek medical advice immediately and show this container or label.

## 16. Other information

The labelling of the product is indicated in Section 15. The full text of the R-phrases indicated by codes in this safety data sheet are as follows:

R20 Harmful by inhalation.

R21/22 Harmful in contact with skin and if swallowed.

R22 Also harmful if swallowed.

R34 Causes burns.

R43 May cause sensitisation by skin contact.

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

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

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.