



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

Page 1 of 6

Loctite 3430, Part A

sds no. : 298562
V003.0

Revision: 20.05.2010
printing date: 01.03.2012

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
2 Bishop Square Business Park
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933

Fax-no.: +44 1606 863762

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-epichlorohydrin 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; ≥ 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; ≥ 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 ()	1,17 g/cm ³
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-epichlorhydrin 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: 90
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

Page 1 of 8

Loctite 3430 Inter. B

sds no. : 205861
V002.1

Revision: 07.04.2011
printing date: 05.04.2012

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Loctite 3430 Inter. B

Relevant identified uses of the substance or mixture and uses advised against:

Intended use:
Epoxy Hardener

Details of the supplier of the safety data sheet:

Henkel Limited
2 Bishop Square Business Park
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933
Fax-no.: +44 1606 863762

ua-productsafety.uk@uk.henkel.com

Emergency telephone number:

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

2. Hazards identification

Classification of the substance or mixture:

Classification (DPD):

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

Label elements (DPD):

Xi - Irritant

**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.

Contains:

N,N-Dimethyldipropyltriamine

Other hazards:

None if used properly.

3. Composition/information on ingredients**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
2,2'-[1,2-ethanediylbis(oxy)]bis(ethanethiol) 14970-87-7	239-044-2	10- 20 %	
N,N-Dimethyldipropyltriamine 10563-29-8	234-148-4	1- 10 %	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	224-207-2	1- 5 %	Skin corrosion 1B H314 Chronic hazards to the aquatic environment 3 H412 Corrosive to metals 1 H290

Only dangerous ingredients for which a CLP classification is already available are displayed in this table.**For full text of the H - statements and other abbreviations see section 16 "Other information".****Substances without classification may have community workplace exposure limits available.**

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
2,2'-[1,2-ethanediy]bis(oxy)]bis(ethanethiol) 14970-87-7	239-044-2	10 - 20 %	Xn - Harmful; R20, R22 N - Dangerous for the environment; R51/53
N,N-Dimethyldipropyltriamine 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 N - Dangerous for the environment; 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**Description of 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.

Most important symptoms and effects, both acute and delayed:

SKIN: Rash, Urticaria.

Indication of any immediate medical attention and special treatment needed:

See section: Description of first aid measures

5. Firefighting measures**Extinguishing media:****Suitable extinguishing media:**

Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:

None known

Special hazards arising from the substance or mixture:

Do not expose to direct heat.
carbon oxides.

Advice for firefighters:

Wear self-contained breathing apparatus.
Wear protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Avoid skin and eye contact.
Wear protective equipment.
See advice in chapter 8

Environmental precautions:

Do not let product enter drains.

Methods and material for containment and cleaning up:

For large spills absorb onto inert absorbent material and place in sealed container for disposal.
Dispose of contaminated material as waste according to Chapter 13.

7. Handling and storage

Precautions for safe 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.

Hygiene measures:

Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

Conditions for safe storage, including any incompatibilities:

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

Specific end use(s):

Epoxy Hardener

8. Exposure controls/personal protection

Control parameters:

Exposure controls:

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 (NBR; ≥ 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 (NBR; ≥ 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.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance	liquid Clear
Odor	characteristic
pH	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	> 100,0 °C (> 212 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (ρ)	1,1 g/cm ³
Bulk density	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (Solvent: Acetone)	Soluble
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Oxidising properties	No data available / Not applicable

Other information:

No data available / Not applicable

10. Stability and reactivity

Reactivity:

Reaction with strong acids.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

See section reactivity

Conditions to avoid:

Stable under normal conditions of storage and use.
Avoid contact with acids and oxidizing agents.
Avoid contact with water.

Incompatible materials:

No data available.

11. Toxicological information

General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

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

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.

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Mobility:

Cured adhesives are immobile.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
2,2'-[1,2-ethanediylbis(oxy)]bis(ethanethiol) 14970-87-7	EC50	1,7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
N,N-Dimethyldipropyltriamine 10563-29-8	EC50	9,2 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	LC50	220 - 460 mg/l	Fish	96 h	Leuciscus idus	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	EC50	220 mg/l	Daphnia	48 h	Daphnia sp.	
3,3'-Oxybis(ethyleneoxy)bis(propylamine) 4246-51-9	EC50	69 mg/l	Algae	72 h		

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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2,2'-[1,2-ethanediylbis(oxy)]bis(ethanethiol) 14970-87-7			< 10 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)
N,N-Dimethyldipropyltriamine 10563-29-8	readily biodegradable		100 %	OECD Guideline 301 A (new version) (Ready Biodegradability: DOC Die Away Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2,2'-[1,2-ethanediylbis(oxy)]bis(ethanethiol) 14970-87-7	0,66					

13. Disposal considerations**Waste treatment methods:**

Product disposal:

Dispose of in accordance with local and national regulations.

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.

Waste code

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

14. Transport information**General information:**

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

15. Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture:**VOC content
(2004/42/EC)

< 25 % (As defined in the Council Directive 2004/42/EC)

16. Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations 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.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

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.