

20 OZ 0.818KG

### Safety Data Sheet according to (EC) No 1907/2006

LOCTITE STYCAST A 316-48 known as ECCOBOND A-316-48

Page 1 of 10

SDS No.: 381871

V003.0

Revision: 19.04.2016

printing date: 28.07.2020

Replaces version from: 20.04.2015

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

LOCTITE STYCAST A 316-48 known as ECCOBOND A-316-48 20 OZ 0.818KG

#### **Contains:**

Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) Epoxy resin-amine condensate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Epoxy adhesive

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 1442 278000 Fax-no.: +44 1442 278071

ua-products a fety.uk@uk.henkel.com

#### 1.4. Emergency telephone number

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

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification (CLP):

Skin irritation Category 2

H315 Causes skin irritation.

Serious eye irritation Category 2

H319 Causes serious eye irritation.

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

### Label elements (CLP):

Hazard pictogram:

Signal word: Warning

Hazard statement: H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects

P273 Avoid release to the environment. Precautionary statement:

Prevention P280 Wear protective gloves.

P302+P352 IF ON SKIN: Wash with plenty of water. Precautionary statement:

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. Response

P337+P313 If eye irritation persists: Get medical advice/attention

#### 2.3. Other hazards

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### General chemical description:

Adhesive

#### Base substances of preparation:

Epoxy resin

#### Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Reaction product: bisphenol-A-	500-033-5	60- 80 %	Skin Irrit. 2
(epichlorhydrin); epoxy resin (number	500-033-5		H315
average molecular weight <= 700)	01-2119456619-26		Skin Sens. 1
25068-38-6			H317
			Eye Irrit. 2
			H319
			Aquatic Chronic 2
			H411
Epoxy resin-amine condensate	500-181-0	5- < 10 %	Skin Sens. 1B
68002-42-6	01-2119967768-13		H317

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.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

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

Page 3 of 10

MSDS-No.: 381871 LOCTITE V003.0 0.818KG

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eve contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

#### 4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

water, carbon dioxide, foam, powder

#### Extinguishing media which must not be used for safety reasons:

High pressure waterjet

#### 5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO2) can be released.

In case of fire, keep containers cool with water spray.

#### 5.3. Advice for firefighters

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

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Wear protective equipment.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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.

#### 6.4. Reference to other sections

See advice in section 8

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Avoid skin and eye contact. See advice in section 8

0.818KG

Page 4 of 10

Hygiene measures:

Good industrial hygiene practices should be observed.

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

#### 7.2. Conditions for safe storage, including any incompatibilities

Ensure good ventilation/extraction.

Keep container tightly sealed.

Store at room temperature.

### 7.3. Specific end use(s)

Epoxy adhesive

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### **Occupational Exposure Limits**

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Quartz (SiO2)		0,1	Time Weighted Average		EH40 WEL
14808-60-7			(TWA):		
[SILICA, RESPIRABLE CRYSTALLINE]					

### **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	· ·	Short term exposure limit category / Remarks	Regulatory list
Quartz (SiO2)		0,1	Time Weighted Average		IR_OEL
14808-60-7			(TWA):		
[QUARTZ, RESPIRABLE DUST (SEE					
CRYSTALLINE SILICA)]					

### **Biological Exposure Indices:**

None

#### 8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Filter type: A (EN 14387)

0.818KG

#### Hand protection:

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:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

#### Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance

black

Odour threshold No data available / Not applicable

рΗ No data available / Not applicable Initial boiling point No data available / Not applicable

> 93,3 °C (> 199.94 °F) Flash point

No data available / Not applicable Decomposition temperature Vapour pressure No data available / Not applicable

Density 1,4 g/cm3

() Bulk density No data available / Not applicable Viscosity No data available / Not applicable Viscosity (kinematic) No data available / Not applicable No data available / Not applicable Explosive properties

Solubility (qualitative) Insoluble

(Solvent: Water)

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 No data available / Not applicable Evaporation rate Vapor density No data available / Not applicable Oxidising properties No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

0.818KG

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with alcohols and amines.

Reacts with oxidants, acids and lyes

Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

#### 10.5. Incompatible materials

See section reactivity

#### 10.6. Hazardous decomposition products

Hydrocarbons

carbon oxides.

nitrogen oxides

Rapid polymerisation may generate excessive heat and pressure.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### General toxicological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. 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.

### Inhalative toxicity:

May cause irritation to respiratory system.

#### Skin irritation:

Causes skin irritation.

#### Eye irritation:

Causes serious eye irritation.

### **Sensitizing:**

May cause an allergic skin reaction.

#### Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Reaction product: bisphenol-A-	LD50	> 5.000 mg/kg	oral		rat	Not specified
(epichlorhydrin); epoxy						
resin (number average molecular weight <= 700)						
25068-38-6						

#### Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		

0.818KG

### Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Reaction product:	LD50	23.000 mg/kg	dermal		rabbit	
bisphenol-A-						
(epichlorhydrin); epoxy						
resin (number average						
molecular weight <= 700)						
25068-38-6						

#### Skin corrosion/irritation:

Hazardous components		Result	Exposure	Species	Method
CAS-No.			time		
Reaction product:	slightly irritating		4 h	rabbit	OECD Guideline 404 (Acute
bisphenol-A-					Dermal Irritation / Corrosion)
(epichlorhydrin); epoxy					
resin (number average					
molecular weight <= 700)					
25068-38-6					

#### Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Reaction product:	not irritating		rabbit	OECD Guideline 405 (Acute
bisphenol-A-				Eye Irritation / Corrosion)
(epichlorhydrin); epoxy				
resin (number average				
molecular weight <= 700)				
25068-38-6				

#### Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Reaction product:	sensitising	Mouse	mouse	OECD Guideline 429 (Skin
bisphenol-A- (epichlorhydrin); epoxy		local lymphnod		Sensitisation: Local Lymph Node Assay)
resin (number average		e assay		1 tode 1 issay)
molecular weight <= 700)		(LLNA)		
25068-38-6				

### Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)			OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)

## **SECTION 12: Ecological information**

### General ecological information:

The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

### 12.1. Toxicity

#### **Ecotoxicity:**

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

Toxic to aquatic life with long lasting effects.

0.818KG

Hazardous components CAS-No.	Value type	Value	Acute Toxicity	Exposure time	Species	Method
	• •		Study			
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	LC50	1,75 mg/l	Fish	96 h	Oncorhynchus mykiss (reported as Salmo gairdneri)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	EC50	9,4 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
	NOEC	2,4 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
Reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) 25068-38-6	NOEC	0,3 mg/l	chronic Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

#### 12.2. Persistence and degradability

### Persistence and Biodegradability:

The product is not biodegradable.

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		
Reaction product: bisphenol-		aerobic	5 %	OECD Guideline 301 F (Ready
A-(epichlorhydrin); epoxy				Biodegradability: Manometric
resin (number average				Respirometry Test)
molecular weight <= 700)				
25068-38-6				

#### 12.3. Bioaccumulative potential / 12.4. Mobility in soil

#### **Mobility:**

Cured adhesives are immobile.

### Bioaccumulative potential:

No data available.

### 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Reaction product: bisphenol-A-(epichlorhydrin);	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
epoxy resin (number average molecular weight	Bioaccumulative (vPvB) criteria.
<= 700)	
25068-38-6	

#### 12.6. Other adverse effects

No data available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

0.818KG

#### Product disposal:

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

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

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

### **SECTION 14: Transport information**

#### 14.1. UN number

ADR	3082
RID	3082
ADN	3082
IMDG	3082
IATA	3082

#### 14.2. UN proper shipping name

	ADR	ENVIRONMENTALLY I	HAZARDOUS S	SUBSTANCE.	LIOUID.	N.O.S.
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(Bisphenol-A Epichlorhydrin resin)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Bisphenol-A Epichlorhydrin resin)

IATA Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

### 14.3. Transport hazard class(es)

ADR	9
RID	9
ADN	9
IMDG	9
IATA	9

#### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	Ш

#### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	Marine pollutant
IATA	not applicable

#### 14.6. Special precautions for user

ADR not applicable

LOCTITE STYCAST A 316-48 known as ECCOBOND A-316-48 20 OZ Page 10 of 10

V003.0 0.818KG

RID ADN

MSDS-No.: 381871

Tunnelcode: (E) not applicable not applicable

IMDG Up to 45 gallons max per inner/primary package when shipped as originally packaged

only

IATA Up to 45 gallons max per inner/primary package when shipped as originally packaged

only

Classification differing from IATA-DGR (ICAO-TI) or IMDG based on national interpretation. Evaluation currently approved by regulatory authorities in the USA and NL. Transport to other countries requires confirmation of the classification by the local competent authorities of each transit country.

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), 197 (IATA), 969 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content < 3 % (2010/75/EC)

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out.

#### **SECTION 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:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic 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.

Relevant changes in this safety data sheet are indicated by vertical lines at the left margin in the body of this document. Corresponding text is displayed in a different color on shadowed fields.