

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

Page 1 of 19

# LOCTITE ABLESTIK 60L PTB known as ECCOBOND 60 L PART B 650 G

SDS No. : 373887 V002.0 Revision: 06.07.2022 printing date: 30.08.2022 Replaces version from: 17.08.2015

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

#### 1.1. Product identifier

LOCTITE ABLESTIK 60L PTB known as ECCOBOND 60 L PART B 650 G

**1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Adhesive

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

Henkel Ltd Adhesives Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

ua-productsafety.uk@henkel.com For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkeladhesives.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 corrosion	Sub-category 1B
H314 Causes severe skin burns and eye damage.	
Serious eye damage	Category 1
H318 Causes serious eye damage.	
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:	
Contains	3,6,9-triazaundecamethylenediamine
	3,6-diazaoctanethylenediamine
	amines, polyethylenepoly-
	3,6,9,12-tetraazatetradecamethylenediamine
Signal word:	Danger
Hazard statement:	H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Hazard statement: Precautionary statement: Prevention	H317 May cause an allergic skin reaction.

#### 2.3. Other hazards

None if used properly.

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

# Following substances are present in a concentration >= 0,1% and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in concentration  $\geq$  the concentration limit that are assessed to be a PBT, vPvB or ED.

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

3.2. Mixtures

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M- factors and ATEs	Add. Information
3,6,9- triazaundecamethylenediamine 112-57-2 203-986-2 01-2119487290-37	25- 50 %	Aquatic Chronic 2, H411 Skin Sens. 1, H317 Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314		
3,6-diazaoctanethylenediamine 112-24-3 203-950-6 01-2119487919-13	1- < 3 %	Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312 Skin Sens. 1, H317 Skin Corr. 1B, H314 Aquatic Chronic 3, H412		
amines, polyethylenepoly- 68131-73-7 268-626-9 01-2119485823-28	0,25- < 2,5 %	Acute Tox. 4, Dermal, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302	M acute = 1 M chronic = 1	
3,6,9,12- tetraazatetradecamethylenediami ne 4067-16-7 223-775-9 01-2119485826-22	0,25- < 2,5 %	Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, Oral, H302 Acute Tox. 4, Dermal, H312	M acute = 1 M chronic = 1	

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

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

Inhalation:

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

Skin contact:

Rinse with running water and soap.

Obtain medical attention if irritation persists.

Eye 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

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

May cause an allergic skin reaction.

Causes burns.

**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), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

### **5.3.** Advice for firefighters

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

#### Additional information:

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

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

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

Avoid contact with skin and eyes. Wear protective equipment. Ensure adequate ventilation. Remove sources of ignition.

#### **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

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)** 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
Graphite 7782-42-5 [GRAPHITE, INHALABLE DUST]		10	Time Weighted Average (TWA):		EH40 WEL
Graphite 7782-42-5 [GRAPHITE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		EH40 WEL

#### **Occupational Exposure Limits**

Valid for Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>		Short term exposure limit category / Remarks	Regulatory list
Graphite 7782-42-5 [GRAPHITE (ALL FORMS EXCEPT FIBRES) (RESPIRABLE FRACTION)]		2	Time Weighted Average (TWA):		IR_OEL
Graphite 7782-42-5 [GRAPHITE (ALL FORMS EXCEPT FIBRES)]		2	Time Weighted Average (TWA):		IR_OEL

# Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
		P	mg/l	ppm	mg/kg	others	
3,6,9-triazaundecamethylenediamine	Soil			<b>^</b>	0,683		
112-57-2					mg/kg		
3,6,9-triazaundecamethylenediamine	aqua		0,0068				
112-57-2	(freshwater)		mg/l				
3,6,9-triazaundecamethylenediamine	aqua (marine		0,00068				
112-57-2	water)		mg/l				
3,6,9-triazaundecamethylenediamine	sediment				3,43 mg/kg		
112-57-2	(freshwater)				0.010		
3,6,9-triazaundecamethylenediamine	sediment				0,343		
112-57-2 3,6,9-triazaundecamethylenediamine	(marine water)		0.72		mg/kg		
112-57-2	sewage treatment plant		9,73 mg/l				
112-37-2	(STP)						
3,6-diazaoctanethylenediamine	aqua		0,027 mg/l				
112-24-3	(freshwater)		0,027 mg/1				
3,6-diazaoctanethylenediamine	aqua (marine		0,003 mg/l				
112-24-3	water)		0,005 mg/1				
3,6-diazaoctanethylenediamine	Sewage		0,13 mg/l				
112-24-3	treatment plant		-,8				
3,6-diazaoctanethylenediamine	sediment				8.572		
112-24-3	(freshwater)				mg/kg		
3,6-diazaoctanethylenediamine	sediment				0,857		
112-24-3	(marine water)				mg/kg		
3,6-diazaoctanethylenediamine	Soil				1,25 mg/kg		
112-24-3							
3,6-diazaoctanethylenediamine	Freshwater -		0,2 mg/l				
112-24-3	intermittent						
3,6-diazaoctanethylenediamine	Marine water -		0,02 mg/l				
112-24-3	intermittent						
amines, polyethylenepoly-	aqua		0,0016				
68131-73-7	(freshwater)		mg/l				
amines, polyethylenepoly-	aqua (marine		0,0016				
68131-73-7	water)		mg/l	-			
amines, polyethylenepoly- 68131-73-7	aqua		0,016 mg/l				
08131-/3-/	(intermittent releases)						
amines, polyethylenepoly-	sewage		3,19 mg/l				
68131-73-7	treatment plant		5,17 mg/1				
00151 75 7	(STP)						
amines, polyethylenepoly-	sediment				0,14 mg/kg		
68131-73-7	(freshwater)						
amines, polyethylenepoly-	sediment				0,14 mg/kg		
68131-73-7	(marine water)						
amines, polyethylenepoly-	Air						no hazard identified
68131-73-7							
amines, polyethylenepoly-	Soil				10 mg/kg		
68131-73-7							
amines, polyethylenepoly-	oral				0,29 mg/kg		
68131-73-7							
3,6,9,12-tetraazatetradecamethylenediamine	aqua		0,005 mg/l				
4067-16-7	(freshwater)		0.001 /		-	-	
3,6,9,12-tetraazatetradecamethylenediamine	aqua (marine		0,001 mg/l				
4067-16-7 3,6,9,12-tetraazatetradecamethylenediamine	water) sewage		4,2 mg/l				
4067-16-7	treatment plant		4,2 mg/1				
4007-10-7	(STP)						
3,6,9,12-tetraazatetradecamethylenediamine	sediment				1,59 mg/kg		
4067-16-7	(freshwater)				1,0 / mg/ kg		
3,6,9,12-tetraazatetradecamethylenediamine	sediment				0,159	1	
4067-16-7	(marine water)				mg/kg		
3,6,9,12-tetraazatetradecamethylenediamine	Soil		İ	İ	3,4 mg/kg		
4067-16-7							
3,6,9,12-tetraazatetradecamethylenediamine	Freshwater -		0,017 mg/l				
4067-16-7	intermittent						
3,6,9,12-tetraazatetradecamethylenediamine	Marine water -		0,002 mg/l				
4067-16-7	intermittent						

# Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
3,6,9-triazaundecamethylenediamine 112-57-2	Workers	dermal	Long term exposure - systemic effects		0,74 mg/kg	
3,6,9-triazaundecamethylenediamine 112-57-2	Workers	inhalation	Long term exposure - systemic effects		1,29 mg/m3	
3,6,9-triazaundecamethylenediamine 112-57-2	Workers	inhalation	Acute/short term exposure - systemic effects		6940 mg/m3	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	dermal	Long term exposure - systemic effects		0,32 mg/kg	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	inhalation	Long term exposure - systemic effects		0,38 mg/m3	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	oral	Long term exposure - systemic effects		0,53 mg/kg	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	oral	Acute/short term exposure - systemic effects		26 mg/kg	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	inhalation	Acute/short term exposure - systemic effects		2071 mg/m3	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	dermal	Acute/short term exposure - systemic effects		10 mg/kg	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	dermal	Acute/short term exposure - local effects		1,29 mg/cm2	
3,6,9-triazaundecamethylenediamine 112-57-2	General population	dermal	Long term exposure - local effects		0,56 mg/cm2	
3,6,9-triazaundecamethylenediamine 112-57-2	Workers	dermal	Long term exposure - local effects		0,036 mg/cm2	
3,6-diazaoctanethylenediamine 112-24-3	Workers	inhalation	Long term exposure - systemic effects		0,54 mg/m3	
3,6-diazaoctanethylenediamine 112-24-3	General population	inhalation	Long term exposure - systemic effects		0,096 mg/m3	
3,6-diazaoctanethylenediamine 112-24-3	General population	oral	Long term exposure - systemic effects		0,14 mg/kg	
amines, polyethylenepoly- 68131-73-7	Workers	inhalation	Long term exposure - systemic effects		1,59 mg/m3	no hazard identified
amines, polyethylenepoly- 68131-73-7	Workers	inhalation	Acute/short term exposure - systemic effects		8550 mg/m3	no hazard identified
amines, polyethylenepoly- 68131-73-7	Workers	dermal	Long term exposure - systemic effects		0,91 mg/kg	no hazard identified
amines, polyethylenepoly- 68131-73-7	Workers	dermal	Long term exposure - local effects		44 μg/cm2/day	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	inhalation	Long term exposure - systemic effects		0,46 mg/m3	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	inhalation	Acute/short term exposure - systemic effects		2542 mg/m3	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	dermal	Long term exposure - systemic effects		0,4 mg/kg	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	dermal	Acute/short term exposure - systemic effects		13 mg/kg	no hazard identified

# SDS No.: 373887 V002.0 LOCTITE ABLESTIK 60L PTB known as ECCOBOND 60 L PART B 650 G

amines, polyethylenepoly- 68131-73-7	General population	dermal	Long term exposure - local effects	0,68 mg/cm2	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	dermal	Acute/short term exposure - local effects	1,59 mg/cm2	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	oral	Long term exposure - systemic effects	0,65 mg/kg	no hazard identified
amines, polyethylenepoly- 68131-73-7	General population	oral	Acute/short term exposure - systemic effects	32 mg/kg	no hazard identified
3,6,9,12-tetraazatetradecamethylenediamine 4067-16-7	General population	oral	Long term exposure - systemic effects	0,21 mg/kg	
3,6,9,12-tetraazatetradecamethylenediamine 4067-16-7	General population	inhalation	Long term exposure - systemic effects	0,14 mg/m3	
3,6,9,12-tetraazatetradecamethylenediamine 4067-16-7	Workers	inhalation	Long term exposure - systemic effects	0,82 mg/m3	

**Biological Exposure Indices:** 

None

#### **8.2. Exposure controls:**

Engineering controls: Ensure good ventilation/extraction.

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)

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					
Information on basic physical and chemical properties					
Physical state	liquid				
Delivery form	Currently under determination				
Colour	black				
Odor	Amine				
Solidification temperature	< 10 °C (< 50 °F)				
Initial boiling point	> 330 °C (> 626 °F)				
Flammability	Not applicable				
	Non flammable product (flash point is greater than 93				
Explosive limits	Not applicable, The product is not flammable.				
Flash point	> 193 °C (> 379.4 °F)				
Auto-ignition temperature	Not applicable, The product is not flammable.				
Decomposition temperature	Currently under determination				
pH	Currently under determination				
Viscosity (kinematic)	Currently under determination				
Solubility (qualitative)	Soluble				
(Solvent: Water)					
Partition coefficient: n-octanol/water	Currently under determination				
Vapour pressure	0,01 mbar				
(20 °C (68 °F))					
Density	1,5 g/cm3 None				
0	-				
Relative vapour density:	>1				
(20 °C)					
Particle characteristics	Currently under determination				

#### 9.2. Other information

Other information not applicable for this product

# **SECTION 10: Stability and reactivity**

**10.1. Reactivity** Strong oxidizing agents. Acids.

**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**

#### 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.

#### 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

Harmful if swallowed.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
3,6,9-	LD50	1.716 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
triazaundecamethylenedia				
mine				
112-57-2				
3,6-	LD50	1.591 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
diazaoctanethylenediamin				
e				
112-24-3				
amines, polyethylenepoly-	LD50	1.716,2 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
68131-73-7				
3,6,9,12-	LD50	1.716,2 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
tetraazatetradecamethylen				
ediamine				
4067-16-7				

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
3,6,9- triazaundecamethylenedia mine 112-57-2	LD50	1.260 mg/kg	rabbit	not specified
3,6- diazaoctanethylenediamin e 112-24-3	LD50	1.465 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
amines, polyethylenepoly- 68131-73-7	LD50	1.465,4 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)
3,6,9,12- tetraazatetradecamethylen ediamine 4067-16-7	LD50	1.465,4 mg/kg	rabbit	OECD Guideline 402 (Acute Dermal Toxicity)

# Acute inhalative toxicity:

No data available.

#### Skin corrosion/irritation:

Causes severe skin burns and eye damage.

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time	_	
3,6,9-	corrosive	4 h	rabbit	Draize Test
triazaundecamethylenedia				
mine				
112-57-2				
3,6-	corrosive		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
diazaoctanethylenediamin				
e				
112-24-3				
amines, polyethylenepoly-	Category 1B			OECD Guideline 435 (In Vitro Membrane Barrier Test
68131-73-7	(corrosive)			Method for Skin Corrosion)

#### Serious eye damage/irritation:

Corrosive Avoid eye contact.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
amines, polyethylenepoly- 68131-73-7	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

#### Respiratory or skin sensitization:

May cause an allergic skin reaction.

Hazardous substances CAS-No.	Result	Test type	Species	Method
3,6,9- triazaundecamethylenedia mine 112-57-2	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
3,6- diazaoctanethylenediamin e 112-24-3	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
amines, polyethylenepoly- 68131-73-7	sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

# Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
3,6,9- triazaundecamethylenedia mine 112-57-2	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
3,6,9- triazaundecamethylenedia mine 112-57-2	ambiguous	sister chromatid exchange assay in mammalian cells	with and without		OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
3,6,9- triazaundecamethylenedia mine 112-57-2	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
3,6- diazaoctanethylenediamin e 112-24-3	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
3,6- diazaoctanethylenediamin e 112-24-3	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	with and without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
amines, polyethylenepoly- 68131-73-7	positive	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

# Carcinogenicity

No data available.

# **Reproductive toxicity:**

No data available.

# STOT-single exposure:

No data available.

# STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
3,6,9- triazaundecamethylenedia mine 112-57-2	LOAEL 50 mg/kg	oral: gavage	26 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
3,6,9- triazaundecamethylenedia mine 112-57-2	NOAEL 50 mg/kg	oral: gavage	26 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
3,6- diazaoctanethylenediamin e 112-24-3	LOAEL 50 mg/kg	oral: gavage	26 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
3,6- diazaoctanethylenediamin e 112-24-3	NOAEL 50 mg/kg	oral: gavage	26 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
amines, polyethylenepoly- 68131-73-7	NOAEL 350 mg/kg	oral: gavage	4 and 8 weeks daily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

# Aspiration hazard:

No data available.

### 11.2 Information on other hazards

not applicable

# **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

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
3,6,9- triazaundecamethylenediamin e 112-57-2	LC50	420 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
3,6- diazaoctanethylenediamine 112-24-3	LC50	570 mg/l	96 h	Poecilia reticulata	OECD Guideline 203 (Fish, Acute Toxicity Test)
amines, polyethylenepoly- 68131-73-7	LC50	100 mg/l	96 h	Poecilia reticulata	EU Method C.1 (Acute Toxicity for Fish)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	LC50	180 mg/l	96 h	Poecilia reticulata	EU Method C.1 (Acute Toxicity for Fish)

### Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
3,6,9- triazaundecamethylenediamin e 112-57-2	EC50	24,1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3,6- diazaoctanethylenediamine 112-24-3	EC50	31 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
amines, polyethylenepoly- 68131-73-7	EC50	2,2 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	EC50	17,5 mg/l	48 h	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)

#### Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
3,6,9,12-	EC10	1,9 mg/l	21 d	Daphnia magna	OECD Guideline 202
tetraazatetradecamethylenedia		-			(Daphnia sp. Chronic
mine					Immobilisation Test)
4067-16-7					

Toxicity (Algae):

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		-		
3,6,9- triazaundecamethylenediamin e 112-57-2	NOEC	0,5 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,6,9- triazaundecamethylenediamin e 112-57-2	EC50	6,8 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,6- diazaoctanethylenediamine 112-24-3	EC10	< 2,5 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,6- diazaoctanethylenediamine 112-24-3	EC50	20 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
amines, polyethylenepoly- 68131-73-7	EC50	0,5 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
amines, polyethylenepoly- 68131-73-7	NOEC	0,16 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	EC50	1,7 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	NOEC	0,25 mg/l	72 h	Raphidocelis subcapitata (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

#### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
3,6,9-	EC 50	1.600 mg/l	1 h		EU Method C.11
triazaundecamethylenediamin		-			(Biodegradation: Activated
e					Sludge Respiration
112-57-2					Inhibition Test)
3,6-	EC0	137 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27
diazaoctanethylenediamine		-		_	(Bacterial oxygen
112-24-3					consumption test)
3,6,9,12-	EC50	164 mg/l	2 h	other:	other guideline:
tetraazatetradecamethylenedia		-			-
mine					
4067-16-7					

# 12.2. Persistence and degradability

The product is not biodegradable.

# SDS No.: 373887 V002.0 LOCTITE ABLESTIK 60L PTB known as ECCOBOND 60 L PART B 650 G

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
3,6,9- triazaundecamethylenediamin e 112-57-2	under test conditions no biodegradation observed	aerobic	0 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
3,6- diazaoctanethylenediamine 112-24-3	not inherently biodegradable	aerobic	0 %	28 d	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA Test)
3,6- diazaoctanethylenediamine 112-24-3	not readily biodegradable.	aerobic	0 %	162 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
amines, polyethylenepoly- 68131-73-7	not readily biodegradable.	aerobic	0 %	162 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
amines, polyethylenepoly- 68131-73-7	not inherently biodegradable	aerobic	16 %	84 day	OECD Guideline 302 A (Inherent Biodegradability: Modified SCAS Test)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	not readily biodegradable.	aerobic	0 %	162 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	not inherently biodegradable	aerobic	18 %	84 d	OECD Guideline 302 A (Inherent Biodegradability: Modified SCAS Test)

# 12.3. Bioaccumulative potential

No data available.

No substance data available.

#### 12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances CAS-No.	LogPow	Temperature	Method
3,6,9- triazaundecamethylenediamin e	-3,16		not specified
112-57-2 3,6- diazaoctanethylenediamine 112-24-3	-2,65		OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
amines, polyethylenepoly- 68131-73-7	-3,67		QSAR (Quantitative Structure Activity Relationship)
3,6,9,12- tetraazatetradecamethylenedia mine 4067-16-7	< 1		not specified

### 12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB
CAS-No.	
3,6,9-triazaundecamethylenediamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
112-57-2	Bioaccumulative (vPvB) criteria.
3,6-diazaoctanethylenediamine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
112-24-3	Bioaccumulative (vPvB) criteria.
amines, polyethylenepoly-	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
68131-73-7	Bioaccumulative (vPvB) criteria.

# 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. 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 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	2320
RID	2320
ADN	2320
IMDG	2320
IATA	2320

#### 14.2. UN proper shipping name

ADR	TETRAETHYLENEPENTAMINE (solution)
RID	TETRAETHYLENEPENTAMINE (solution)
ADN	TETRAETHYLENEPENTAMINE (solution)
IMDG	TETRAETHYLENEPENTAMINE (solution)
IATA	Tetraethylenepentamine (solution)

#### 14.3. Transport hazard class(es)

ADR	8
RID	8
ADN	8
IMDG	8
IATA	8

#### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

#### 14.5. **Environmental hazards**

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

#### 14.6. Special precautions for user

ADR not applicable

	Tunnelcode: (E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

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

< 3 %

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): Persistent organic pollutants (Regulation (EU) 2019/1021):

VOC content (2010/75/EC) Not applicable Not applicable

Not applicable

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:

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very
	bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

#### Further information:

This Safety Data Sheet has been produced for sales from Henkel to parties purchasing from Henkel, is based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulations of the European Union only. In that respect, no statement, warranty or representation of any kind is given as to compliance with any statutory laws or regulations of any other jurisdiction or territory other than the European Union. When exporting to territories other than the European Union, please consult with the respective Safety Data Sheet of the concerned territory to ensure compliance or liaise with Henkel's Product Safety and Regulatory Affairs Department (ua-productsafety.de@henkel.com) prior to export to other territories than the European Union.

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.

#### Dear Customer,

Henkel is committed to creating a sustainable future by promoting opportunities along the entire value chain. If you would like to contribute by switching from a paper to the electronic version of SDS, please contact the local Customer Service representative. We recommend to use a non-personal email address (e.g. SDS@your\_company.com).

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.