

Loctite 341A

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

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SDS No.: 173228 V005.1

Revision: 24.08.2015

printing date: 26.11.2017

Replaces version from: 05.08.2015

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

#### 1.1. Product identifier

Loctite 341A

#### **Contains:**

Cyclohexyl methacrylate Acrylic acid 1-Methyltrimethylene dimethacrylate

Tert-butyl perbenzoate

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

Intended use: Acrylic 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-productsafety.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

## $\textbf{Classification} \ (\textbf{CLP}) \textbf{:}$

Skin sensitizer Category 1

H317 May cause an allergic skin reaction.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation.

Target organ: respiratory tract irritation

Chronic hazards to the aquatic environment Category 3

H412 Harmful to aquatic life with long lasting effects.

Serious eye damage Category 1

H318 Causes serious eye damage.

Skin irritation Category 2

H315 Causes skin irritation.

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#### 2.2. Label elements

#### Label elements (CLP):

Hazard pictogram:



Signal word: Danger

**Hazard statement:** H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statement:** P261 Avoid breathing vapours.

Prevention P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection.

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

**Response** P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

#### 2.3. Other hazards

Non corrosive to skin in accordance with the in vivo test method B.4. Acute toxicity: dermal irritation / corrosion, equivalent to OECD 404 or based on analogy to similar products tested.

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

#### 3.2. Mixtures

#### General chemical description:

Part A of two part adhesive

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Cyclohexyl methacrylate 101-43-9	202-943-5 01-2119484667-21	40- 60 %	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 Skin Sens. 1 H317
Acrylic acid 79-10-7	201-177-9 01-2119452449-31	5- < 10 %	Flam. Liq. 3 H226 Acute Tox. 4; Oral H302 Acute Tox. 4; Dermal H312 Skin Corr. 1A H314 Acute Tox. 4; Inhalation H332 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 2 H411
1-Methyltrimethylene dimethacrylate 1189-08-8	214-711-0 01-2119969461-31	1-< 3 %	Skin Sens. 1B H317
Tert-butyl perbenzoate 614-45-9	210-382-2 01-2119513317-46	0,25-< 2,5 %	Org. Perox. C H242 Skin Irrit. 2; Dermal H315 Acute Tox. 4; Inhalation H332 Skin Sens. 1 H317 Aquatic Acute 1 H400
Butyl hydroxytoluene 128-37-0	204-881-4 01-2119480433-40 01-2119555270-46 01-2119565113-46	0,1-< 1 %	Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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:

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

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.

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

EYE: Irritation, conjunctivitis.

SKIN: Redness, inflammation.

SKIN: Rash, Urticaria.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

#### 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:

Carbon dioxide, foam, powder

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

None known

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

Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

#### 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 skin and eye contact.

#### 6.2. Environmental precautions

Do not let product enter drains.

#### 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

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.

See advice in section 8

#### 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.

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

Store in original containers at 8-21°C (46.4-69.8°F) and do not return residual materials to containers as contamination may reduce the shelf life of the bulk product.

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#### 7.3. Specific end use(s)

Acrylic 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
2,6-di-tert-Butyl-p-cresol		10	Time Weighted Average		EH40 WEL
128-37-0			(TWA):		
[2,6-DI-TERT-BUTYL-P-CRESOL]					

#### **Occupational Exposure Limits**

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Acrylic acid 79-10-7 [ACRYLIC ACID]	2	6	Time Weighted Average (TWA):	8 7	IR_OEL
2,6-di-tert-Butyl-p-cresol 128-37-0 [2,6-DITERTIARY-BUTYL-PARA- CRESOL]		10	Time Weighted Average (TWA):		IR_OEL

#### **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

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.

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.

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Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.

Skin protection:

Wear suitable protective clothing.

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

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

Appearance liquid

liquid yellow

Odor Acrylic

Odour threshold No data available / Not applicable

pH Not determined Initial boiling point > 150 °C (> 302 °F) Flash point 82 °C (179.6 °F)

Decomposition temperature No data available / Not applicable

Vapour pressure < 38 mbar

(20 °C (68 °F))

Vapour pressure < 700 mbar

(50 °C (122 °F))

Density 0,96 g/cm3

(20 °C (68 °F))

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

Solubility (qualitative) Insoluble

(Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: Acetone)

Solidification temperature No data available / Not applicable Melting point No data available / Not applicable No data available / Not applicable Flammability Auto-ignition temperature No data available / Not applicable **Explosive limits** No data available / Not applicable No data available / Not applicable Partition coefficient: n-octanol/water No data available / Not applicable Evaporation rate No data available / Not applicable Vapor density Oxidising properties No data available / Not applicable

#### 9.2. Other information

No data available / Not applicable

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

#### 10.1. Reactivity

Reacts with strong oxidants.

## 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

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#### 10.5. Incompatible materials

See section reactivity

#### 10.6. Hazardous decomposition products

carbon oxides.

## **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 1272/2008/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

#### STOT-single exposure:

May cause respiratory irritation.

#### Oral toxicity:

May cause irritation to the digestive tract.

#### Skin irritation:

Causes skin irritation.

Non corrosive to skin in accordance with the in vivo test method B.4. Acute toxicity: dermal irritation / corrosion, equivalent to OECD 404 or based on analogy to similar products tested.

#### Eye irritation:

Causes serious eye damage.

#### **Sensitizing:**

May cause an allergic skin reaction.

#### Acute oral toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Cyclohexyl methacrylate	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
101-43-9						Oral Toxicity)
Acrylic acid	LD50	1.500 mg/kg	oral		rat	BASF Test
79-10-7						
1-Methyltrimethylene	LD50	> 5.000 mg/kg	oral		rat	
dimethacrylate						
1189-08-8						
Tert-butyl perbenzoate	LD50	4.838 mg/kg	oral		rat	
614-45-9						
Butyl hydroxytoluene	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute
128-37-0						Oral Toxicity)

#### Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Acrylic acid 79-10-7	LC50	> 5,1 mg/l	Vapor.	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Tert-butyl perbenzoate 614-45-9	LC50	> 1,01 mg/l	Aerosol		Not specified	

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## Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Cyclohexyl methacrylate	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
101-43-9						Dermal Toxicity)
Acrylic acid	LD50	640 mg/kg	dermal		rabbit	BASF Test
79-10-7						
1-Methyltrimethylene	LD50	> 3.000 mg/kg	dermal		rabbit	
dimethacrylate						
1189-08-8						
Tert-butyl perbenzoate	LD50	3.817 mg/kg	dermal		rat	
614-45-9						

## Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		
Acrylic acid	highly corrosive	3 min	rabbit	OECD Guideline 404 (Acute
79-10-7				Dermal Irritation / Corrosion)

#### Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Acrylic acid	corrosive	21 d	rabbit	BASF Test
79-10-7				

## Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Cyclohexyl methacrylate 101-43-9	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Acrylic acid 79-10-7	not sensitising	Skin painting test	guinea pig	
1-Methyltrimethylene dimethacrylate 1189-08-8	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Acrylic acid 79-10-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

# **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 1272/2008/EC. 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.

Harmful to aquatic life with long lasting effects.

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Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type	Value	Toxicity Study	time	Species	Withou
Cyclohexyl methacrylate	NOEC	9,4 mg/l	Fish	35 d	Brachydanio rerio (new name:	OECD 210 (fish
101-43-9		,, <u>8</u> .			Danio rerio)	early lite stage
	DG50	22.0 "		40.1	<b>.</b>	toxicity test)
Cyclohexyl methacrylate 101-43-9	EC50	33,9 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp.
101-43-9						Acute
						Immobilisation
						Test)
Cyclohexyl methacrylate 101-43-9	EC50	12,5 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	
101-43-9						201 (Alga, Growth Inhibition Test)
Acrylic acid	LC50	27 mg/l	Fish	96 h	Salmo gairdneri (new name:	EPA OTS
79-10-7					Oncorhynchus mykiss)	797.1400 (Fish
						Acute Toxicity Test)
Acrylic acid	EC10	0,03 mg/l	Algae	72 h	Scenedesmus subspicatus (new	OECD Guideline
79-10-7		*,**8 -	1 8	,	name: Desmodesmus	201 (Alga, Growth
					subspicatus)	Inhibition Test)
	EC50	0,13 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus	OECD Guideline 201 (Alga, Growth
					subspicatus)	Inhibition Test)
Acrylic acid	EC10	41 mg/l	Bacteria	16 h	subspiculus)	DIN 38412, part 8
79-10-7						(Pseudomonas
						Zellvermehrungshe
Acrylic acid	NOEC	19 mg/l	chronic	21 d	Daphnia magna	mm-Test) EPA OTS
79-10-7	11020	17 11191	Daphnia	21.0	Dupiniu mugiu	797.1330 (Daphnid
						Chronic Toxicity
1-Methyltrimethylene	LC50	32,5 mg/l	Fish	48 h		Test) DIN 38412-15
dimethacrylate	LC30	32,3 mg/1	1.1211	46 11		DIN 36412-13
1189-08-8						
Tert-butyl perbenzoate	LC50	1,6 mg/l	Fish	96 h	Brachydanio rerio (new name:	OECD Guideline
614-45-9					Danio rerio)	203 (Fish, Acute Toxicity Test)
Tert-butyl perbenzoate	EC50	11 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
614-45-9		Č	1			202 (Daphnia sp.
						Acute
						Immobilisation Test)
Tert-butyl perbenzoate	EC50	0,8 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	/
614-45-9			C		•	201 (Alga, Growth
	NOEC	0.72/1	A1	72.1	Dd-1-il11li4-4-	Inhibition Test)
	NOEC	0,72 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth
						Inhibition Test)
Tert-butyl perbenzoate	EC10	6 mg/l	Bacteria	30 min		OECD Guideline
614-45-9						209 (Activated
						Sludge, Respiration Inhibition Test)
Butyl hydroxytoluene	EC50	0,48 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
128-37-0						202 (Daphnia sp.
						Acute Immobilisation
						Test)
Butyl hydroxytoluene	EC0	500 mg/l	Bacteria	30 min		DIN 38412, part 27
128-37-0				1		(Bacterial oxygen
Butyl hydroxytoluene	NOEC	0,316 mg/l	chronic	21 d	Daphnia magna	consumption test) OECD 211
128-37-0	NOEC	0,510 mg/1	Daphnia	21 u	Барина шадна	(Daphnia magna,
			1			Reproduction Test)
	•					·

# 12.2. Persistence and degradability

# **Persistence and Biodegradability:** No data available for the product.

Hazardous components	Result	Route of	Degradability	Method
CAS-No.		application		

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Acrylic acid 79-10-7	readily biodegradable	aerobic	81 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Tert-butyl perbenzoate 614-45-9	readily biodegradable, but failing 10-day window	aerobic	72 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Butyl hydroxytoluene 128-37-0		aerobic	4,5 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (1))

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

## Mobility:

Cured adhesives are immobile.

# Bioaccumulative potential:

No data available for the product.

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Cyclohexyl methacrylate 101-43-9	3,54				25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Acrylic acid 79-10-7 Acrylic acid 79-10-7	0,46	3,16			25 °C	OECD Guideline 107 (Partition Coefficient (noctanol / water), Shake Flask Method)
Butyl hydroxytoluene 128-37-0  Butyl hydroxytoluene 128-37-0	5,1	330 - 1.800	56 d	Cyprinus carpio		OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

## 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	
Cyclohexyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
101-43-9	Bioaccumulative (vPvB) criteria.
Acrylic acid	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
79-10-7	Bioaccumulative (vPvB) criteria.
1-Methyltrimethylene dimethacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
1189-08-8	Bioaccumulative (vPvB) criteria.
Tert-butyl perbenzoate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
614-45-9	Bioaccumulative (vPvB) criteria.
Butyl hydroxytoluene	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
128-37-0	Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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#### Product disposal:

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

## 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.

#### 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	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

#### 14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

## 14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

#### 14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

#### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

## 14.6. Special precautions for user

ADR not applicable

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RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

#### 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 < 5 % (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:

H226 Flammable liquid and vapor.

H242 Heating may cause a fire.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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.

## **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.



Loctite 341B

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

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SDS No.: 173229

V004.0 Revision: 13.10.2017

printing date: 26.11.2017

Replaces version from: 21.08.2014

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

#### 1.1. Product identifier

Loctite 341B

#### **Contains:**

Cyclohexyl methacrylate Triphenylphosphine

#### 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

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

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

ua-productsafety.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.

Specific target organ toxicity - single exposure Category 3

H335 May cause respiratory irritation. Target organ: respiratory tract irritation

#### 2.2. Label elements

# Label elements (CLP):

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Signal word: Warning

Hazard statement:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statement: P261 Avoid breathing mist/vapours.
Prevention P280 Wear protective gloves.

Precautionary statement:

Response

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

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

## 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:

Part B of a two part adhesive

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Cyclohexyl methacrylate	202-943-5	50- 100 %	Skin Irrit. 2
101-43-9	01-2119484667-21		H315
			Eye Irrit. 2
			H319
			STOT SE 3
			H335
			Skin Sens. 1
			H317
Diethyl-phenyl-propyl-dihydropyridine	252-091-3	1-< 5 %	Acute Tox. 4; Oral
34562-31-7			H302
			Acute Tox. 4; Dermal
			H312
			Skin Irrit. 2; Dermal
			H315
			Eye Irrit. 2
			H319
			Aquatic Chronic 4
			H413
Triphenylphosphine	210-036-0	0,1-< 1 %	Acute Tox. 4; Oral
603-35-0	01-2119475464-32		H302
			Skin Sens. 1; Dermal
			H317
			Aquatic Chronic 4
			H413
			STOT RE 2
			H373

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.

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

#### 4.1. Description of 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.

Eve 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.

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

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

EYE: Irritation, conjunctivitis.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

#### 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:

Carbon dioxide, foam, powder

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

None known

## 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. Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.

## 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**

# ${\bf 6.1. \, Personal \, precautions, \, protective \, equipment \, and \, emergency \, procedures}$

Avoid contact with skin and eyes.

Ensure adequate ventilation.

Wear protective equipment.

## 6.2. Environmental precautions

Do not let product enter drains.

#### 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.

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#### 6.4. Reference to other sections

See advice in section 8

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Use only in well-ventilated areas. 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

Refer to Technical Data Sheet

## 7.3. Specific end use(s)

Adhesive

# **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## **Occupational Exposure Limits**

Valid for

Great Britain

None

## **Occupational Exposure Limits**

Valid for

Ireland

None

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# $\label{eq:predicted} \textbf{Predicted No-Effect Concentration (PNEC):}$

Name on list	Environmental Compartment	Exposure period	Value				Remarks
	•		mg/l	ppm	mg/kg	others	
Cyclohexyl methacrylate	aqua		0,549 mg/l				
101-43-9	(freshwater)						
Cyclohexyl methacrylate	aqua (marine		0,0549				
101-43-9	water)		mg/l				
Cyclohexyl methacrylate	aqua		0,0549				
101-43-9	(intermittent		mg/l				
	releases)						
Cyclohexyl methacrylate	sediment				12,28		
101-43-9	(freshwater)				mg/kg		
Cyclohexyl methacrylate	sediment				1,228		
101-43-9	(marine water)				mg/kg		
Cyclohexyl methacrylate 101-43-9	soil				2,13 mg/kg		
Cyclohexyl methacrylate	sewage		9 mg/l				
101-43-9	treatment plant (STP)						
Triphenylphosphine	aqua		0,165 mg/l				
603-35-0	(freshwater)						
Triphenylphosphine	aqua (marine		0,165 mg/l				
603-35-0	water)						
Triphenylphosphine	aqua		0,165 mg/l				
603-35-0	(intermittent						
	releases)		100 7				
Triphenylphosphine	sewage		100 mg/l				
603-35-0	treatment plant (STP)						
Triphenylphosphine	sediment			1	5540		
603-35-0	(freshwater)				mg/kg		
Triphenylphosphine	sediment				5540		
603-35-0	(marine water)				mg/kg		
Triphenylphosphine	soil				1100		
603-35-0					mg/kg		

# **Derived No-Effect Level (DNEL):**

Name on list	Application	Route of	Health Effect	Exposure	Value	Remarks
	Area	Exposure		Time		
Cyclohexyl methacrylate	Workers	Inhalation	Long term		409 mg/m3	
101-43-9			exposure - local			
			effects			
Triphenylphosphine	Workers	inhalation	Long term		5 mg/m3	
603-35-0			exposure - local			
			effects			
Triphenylphosphine	Workers	inhalation	Long term		5 mg/m3	
603-35-0			exposure -			
			systemic effects			

# **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Engineering controls:

Ensure good ventilation/extraction.

Respiratory protection: Use only in well-ventilated areas.

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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;  $\geq$  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:

Wear protective glasses.

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 liquid blue
Odor characteristic

Odour threshold No data available / Not applicable

pH Not determined

Melting point No data available / Not applicable Solidification temperature No data available / Not applicable

Initial boiling point > 150 °C (> 302 °F) Flash point > 20 °C (> 302 °F) > 20 °C (> 302 °F)

Evaporation rate No data available / Not applicable Flammability No data available / Not applicable Explosive limits No data available / Not applicable

Vapour pressure < 38 mbar

(20 °C (68 °F))

Relative vapour density: No data available / Not applicable

Density 0,96 g/cm<sup>3</sup>

()

Bulk density No data available / Not applicable Solubility No data available / Not applicable

Solubility (qualitative) Insoluble

(Solvent: Water)

Solubility (qualitative) Soluble

(Solvent: Acetone)

Partition coefficient: n-octanol/water

Auto-ignition temperature

Decomposition temperature

Viscosity

Viscosity

No data available / Not applicable
No data available / Not applicable
No data available / Not applicable
Viscosity

Viscosity

Viscosity

Viscosity

Viscosity

No data available / Not applicable
Explosive properties

No data available / Not applicable
Oxidising properties

No data available / Not applicable
No data available / Not applicable

#### 9.2. Other information

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No data available / Not applicable

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

Reacts with strong oxidants.

## 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

#### 10.4. Conditions to avoid

Stable under normal conditions of storage and use.

#### 10.5. Incompatible materials

See section reactivity.

## 10.6. Hazardous decomposition products

carbon oxides.

# **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## Acute oral toxicity:

May cause irritation to the digestive tract.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Cyclohexyl methacrylate 101-43-9	LD50	> 5.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Triphenylphosphine 603-35-0	LD50	700 mg/kg	rat	BASF Test

## Acute dermal toxicity:

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

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Cyclohexyl methacrylate 101-43-9	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
Triphenylphosphine 603-35-0	LD50	> 4.000 mg/kg	rabbit	BASF Test

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## Acute inhalative toxicity:

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

Hazardous substances	Value	Value	Test atmosphere	Exposure	Species	Method
CAS-No.	type			time		
Triphenylphosphine	LC50	12,5 mg/l	aerosol	4 h	rat	not specified
603-35-0						

#### Skin corrosion/irritation:

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

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Diethyl-phenyl-propyl-	irritating			Expert judgement
dihydropyridine				
34562-31-7				
Triphenylphosphine	not irritating	20 h	rabbit	BASF Test
603-35-0				

## Serious eye damage/irritation:

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

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Diethyl-phenyl-propyl- dihydropyridine 34562-31-7	irritating			Expert judgement
Triphenylphosphine 603-35-0	not irritating	24 h	rabbit	BASF Test

## Respiratory or skin sensitization:

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

Hazardous substances CAS-No.	Result	Test type	Species	Method
Cyclohexyl methacrylate 101-43-9	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Triphenylphosphine 603-35-0	sensitising	Guinea pig maximisation test	guinea pig	EU Method B.6 (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
Triphenylphosphine	negative	bacterial reverse	with and without		not specified
603-35-0		mutation assay (e.g			
		Ames test)			

## Carcinogenicity

No data available.

## Reproductive toxicity:

No data available.

## STOT-single exposure:

No data available.

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## 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
Triphenylphosphine 603-35-0	NOAEL 6 mg/kg	oral: gavage	91 days 7 days/week	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

## Aspiration hazard:

No data available.

# **SECTION 12: Ecological information**

## 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				
Cyclohexyl methacrylate	NOEC	9,4 mg/l	35 d	Brachydanio rerio (new name:	OECD Guideline 210 (fish
101-43-9				Danio rerio)	early lite stage toxicity test)
Triphenylphosphine	LC50		96 h	Leuciscus idus	DIN 38412-15
603-35-0					

# Toxicity (Daphnia):

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

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Cyclohexyl methacrylate 101-43-9	EC50	33,9 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Triphenylphosphine 603-35-0	EC50		48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

## Chronic toxicity to aquatic invertebrates

No data available.

Toxicity (Algae):

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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				
Cyclohexyl methacrylate 101-43-9	EC50	12,5 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triphenylphosphine 603-35-0	EC50		72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Triphenylphosphine 603-35-0	NOEC		72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)

## 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				
Triphenylphosphine	EC10		30 min	Pseudomonas putida	DIN 38412, part 27
603-35-0				_	(Bacterial oxygen
					consumption test)

## 12.2. Persistence and degradability

No data available for the product.

Hazardous substances	Result	Test type	Degradability	Exposure	Method
CAS-No.				time	
Triphenylphosphine	not readily biodegradable.	aerobic	< 20 %	28 d	OECD Guideline 301 F (Ready
603-35-0					Biodegradability: Manometric
					Respirometry Test)

## 12.3. Bioaccumulative potential

No data available for the product.

No substance data available.

## 12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
Cyclohexyl methacrylate	3,54	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake
101-43-9			Flask Method)
Triphenylphosphine	5,69		OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-
603-35-0			Stirring Method)

## 12.5. Results of PBT and vPvB assessment

Hazardous substances CAS-No.	PBT / vPvB
Cyclohexyl methacrylate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
101-43-9	Bioaccumulative (vPvB) criteria.
Triphenylphosphine	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very
603-35-0	Bioaccumulative (vPvB) criteria.

## 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

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#### Product disposal:

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used

## 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.

#### 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	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

#### 14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

# 14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

#### 14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

#### 14.5. Environmental hazards

not applicable
not applicable
not applicable
not applicable
not applicable

## 14.6. Special precautions for user

ADR not applicable

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RID not applicable
ADN not applicable
IMDG not applicable
IATA not applicable

#### 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:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

 ${
m H373~May}$  cause damage to organs through prolonged or repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

#### **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.