

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

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sds no.: 475899

V001.0

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Loctite All Purpose Adhesive (UK), TG NINGBO PASCO

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

#### 1.1. Product identifier

Loctite All Purpose Adhesive (UK), TG NINGBO PASCO

## 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 Limited Wood Lane End

HP2 4RQ Hemel Hempstead, Herts

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 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: technical.services@henkel.co.uk

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

## Classification (DPD):

F - Highly flammable

R11 Highly flammable.

Xi - Irritant

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

#### 2.2. Label elements

#### Label elements (DPD):

F - Highly flammable







#### Risk phrases:

- R11 Highly flammable.
- R36 Irritating to eyes.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.

#### Safety phrases:

- S2 Keep out of the reach of children.
- S16 Keep away from sources of ignition No smoking.
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S46 If swallowed, seek medical advice immediately and show this container or label.

## 2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

Pregnant women should absolutely avoid inhalation and skin contact.

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

## General chemical description:

Dispersion adhesive

# Base substances of preparation:

containing solvents

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

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Methyl acetate	201-185-2	>= 40-< 60 %	Specific target organ toxicity - single
79-20-9			exposure 3
			H336
			Flammable liquids 2
			H225
			Serious eye irritation 2
			H319
Ethanol	200-578-6	>= 10-< 20 %	Serious eye irritation 2
64-17-5	01-2119457610-43		H319
			Flammable liquids 2
			H225
Acetone	200-662-2	>= 5-< 15 %	Flammable liquids 2
67-64-1	01-2119471330-49		H225
			Specific target organ toxicity - single
			exposure 3
			H336
			Serious eye irritation 2
			H319

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Methyl acetate 79-20-9	201-185-2	>= 40 - < 60 %	Xi - Irritant; R36 R67 F - Highly flammable; R11 R66
Ethanol 64-17-5	200-578-6 01-2119457610-43	>= 10 - < 20 %	F - Highly flammable; R11
Acetone 67-64-1	200-662-2 01-2119471330-49	>= 5 -< 15 %	R66 Xi - Irritant; R36 F - Highly flammable; R11 R67

For full text of the R-Phrases indicated by codes see section 16 'Other Information'. Substances without classification may have community workplace exposure limits available.

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

#### 4.1. Description of first aid measures

#### General information:

In case of adverse health effects seek medical advice.

Move to fresh air, consult doctor if complaint persists.

#### Skin contact:

Rinse with running water and soap. Skin care. Remove contaminated clothes immediately.

Immediately flush eyes with soft jet of water or eye rinse solution for at least 5 minutes. If pains remains (intensive smarting, sensivity to light, visual disturbance) continue flushing and contact/seek doctor or hospital.

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

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

EYE: Irritation, conjunctivitis.

Repeated exposure may cause skin dryness or cracking.

Vapors may cause drowsiness and dizziness.

#### 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, water spray jet, fine water spray

# 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.

# 5.3. Advice for firefighters

Wear self-contained breathing apparatus.

Wear protective equipment.

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Additional information:

Cool endangered containers with water spray jet.

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

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

Ensure adequate ventilation.

Keep away from sources of ignition.

Wear protective equipment.

Avoid contact with skin and eyes.

Danger of slipping on spilled product.

#### 6.2. Environmental precautions

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

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

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Chapter 13.

#### 6.4. Reference to other sections

See advice in chapter 8

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not empty waste into waste water drains.

Also to be noted when processing larger amounts (> 1 kg): during processing and drying after adhesion, ventilate well. Avoid all sources of fire such as stoves and ovens. Switch off all electrical devices such as parabolic heaters, hot plates, storage heaters etc. in good time for them to have cooled down before commencing work. Avoid all sparks, including those occurring at electrical switches and devices.

Avoid skin and eye contact.

## Hygiene measures:

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

Store in sealed original container.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

### 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	ppm	mg/m <sup>3</sup>	Type	Category	Remarks
METHYL ACETATE	200	616	Time Weighted Average		EH40 WEL
79-20-9			(TWA):		
METHYL ACETATE	250	770	Short Term Exposure		EH40 WEL
79-20-9			Limit (STEL):		
ACETONE	500	1.210	Time Weighted Average		EH40 WEL
67-64-1			(TWA):		
ACETONE	1.500	3.620	Short Term Exposure		EH40 WEL
67-64-1			Limit (STEL):		
ACETONE	500	1.210	Time Weighted Average	Indicative	ECTLV
67-64-1			(TWA):		
ETHANOL	1.000	1.920	Time Weighted Average		EH40 WEL
64-17-5			(TWA):		

# **Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental		Value				Remarks
	Compartment	period				others	
Ethanol			mg/l	ppm	mg/kg		
1 11 1	aqua					0,96 mg/L	
64-17-5	(freshwater)					0.70 %	
Ethanol	aqua (marine					0,79 mg/L	
64-17-5	water)						
Ethanol	aqua					2,75 mg/L	
64-17-5	(intermittent						
	releases)						
Ethanol	sediment				3,6 mg/kg		
64-17-5	(freshwater)						
Ethanol	soil				0,63 mg/kg		
64-17-5							
Ethanol	STP					580 mg/L	
64-17-5							
Ethanol	oral				720 mg/kg		
64-17-5							
Acetone	aqua					21 mg/L	
67-64-1	(intermittent						
	releases)						
Acetone	STP					100 mg/L	
67-64-1							
Acetone	sediment				30,4 mg/kg		
67-64-1	(freshwater)						
Acetone	sediment				3,04 mg/kg		
67-64-1	(marine water)						
Acetone	soil				29,5 mg/kg		
67-64-1							
Acetone	aqua					10,6 mg/L	
67-64-1	(freshwater)						
Acetone	aqua (marine					1,06 mg/L	
67-64-1	water)						

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Ethanol 64-17-5	worker	inhalation	Acute/short term exposure - local effects		1900 mg/m3	
Ethanol 64-17-5	worker	dermal	Long term exposure - systemic effects		343 mg/kg bw/day	
Ethanol 64-17-5	worker	inhalation	Long term exposure - systemic effects		950 mg/m3	
Ethanol 64-17-5	general population	inhalation	Acute/short term exposure - local effects		950 mg/m3	
Ethanol 64-17-5	general population	dermal	Long term exposure - systemic effects		206 mg/kg bw/day	
Ethanol 64-17-5	general population	inhalation	Long term exposure - systemic effects		114 mg/m3	
Ethanol 64-17-5	general population	oral	Long term exposure - systemic effects		87 mg/kg bw/day	
Acetone 67-64-1	worker	inhalation	Acute/short term exposure - local effects		2420 mg/m3	
Acetone 67-64-1	worker	dermal	Long term exposure - systemic effects		186 mg/kg bw/day	
Acetone 67-64-1	worker	inhalation	Long term exposure - systemic effects		1210 mg/m3	
Acetone 67-64-1	general population	dermal	Long term exposure - systemic effects		62 mg/kg bw/day	
Acetone 67-64-1	general population	inhalation	Long term exposure - systemic effects		200 mg/m3	
Acetone 67-64-1	general population	oral	Long term exposure - systemic effects		62 mg/kg bw/day	

#### **Biological Exposure Indices:**

None

# 8.2. Exposure controls:

Respiratory protection:

Ensure adequate ventilation.

The product should only be used at workplaces with intensive ventilation/extraction. If the ventilation/extraction system breaks down then respiratory protection (A2 filter and P2 particle filter) must be worn.

## Hand protection:

Recommended are gloves made from Nitril rubber (Material thickness >0,1 mm, Perforation time < 30s). Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's

In the case of longer contact protective gloves made from chloroprene rubber are recommended according to EN 374. material thickness > 0.6 mm

Perforation time > 10 minutes

In the case of longer and repeated contact please note that in practice the penetration times may be considerably shorter than those determined according to EN 374. The protective gloves must always be checked for their suitability for use at the specific workplace (e.g. mechanical and thermal stress, product compatibility, antistatic effects, etc.). The gloves must be replaced immediately at the first signs of wear and tear. The information provided by the manufacturers and given in the relevant trade association regulations for industrial safety must always be observed. We recommend that a hand care plan is drawn up in cooperation with a glove manufacturer and the trade association in accordance with the local operating conditions.

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Eye protection:

Goggles which can be tightly sealed.

Skin protection:

Suitable protective clothing

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

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

Appearance liquid

viscous

Colorless Odor aromatic

Odour threshold No data available / Not applicable

pH No data available / Not applicable
Initial boiling point No data available / Not applicable
Flash point < 23 °C (< 73.4 °F); Supplier method
Decomposition temperature No data available / Not applicable
Vapour pressure No data available / Not applicable

Density 0,92 - 0,94 g/cm3

(25 °C (77 °F))

Bulk density

No data available / Not applicable

Viscosity

No data available / Not applicable

Viscosity (kinematic)

No data available / Not applicable

Explosive properties

No data available / Not applicable

Solubility (qualitative) Insoluble

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 Partition coefficient: n-octanol/water No data available / Not applicable 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

Reaction with oxidants.

# 10.2. Chemical stability

Stable under recommended storage conditions.

#### 10.3. Possibility of hazardous reactions

See section reactivity

## 10.4. Conditions to avoid

None if used for intended purpose.

#### 10.5. Incompatible materials

None if used properly.

## 10.6. Hazardous decomposition products

None known

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

#### General toxicological information:

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

## Inhalative toxicity:

The toxicity of the product is due to its narcotic effect after inhalation.

In the event of protracted or repeated exposure, damage to health cannot be excluded.

Vapors may cause drowsiness and dizziness.

#### **Skin irritation:**

Repeated exposure may cause skin dryness or cracking.

## Eye irritation:

Primary eye irritation: irritating

## Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethanol 64-17-5	LD50	13.700 mg/kg	oral		rat	
Acetone 67-64-1	LD50	5.800 mg/kg	oral		rat	

## Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Ethanol 64-17-5	LC50	124,7 mg/l	inhalation	4 h	rat	
Acetone 67-64-1	LC50	76 mg/l	inhalation	4 h	rat	

## Acute dermal toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Methyl acetate 79-20-9	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute Dermal Toxicity)
Ethanol 64-17-5	LDLo	20.000 mg/kg	dermal		rabbit	
Acetone 67-64-1	LD50	> 15.688 mg/kg	dermal		rabbit	

#### Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Methyl acetate	not irritating	4 h	rabbit	OECD Guideline 404 (Acute
79-20-9				Dermal Irritation / Corrosion)
Ethanol	not irritating		rabbit	OECD Guideline 404 (Acute
64-17-5				Dermal Irritation / Corrosion)

# Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Methyl acetate 79-20-9	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Ethanol 64-17-5	Category II		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Acetone 67-64-1	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

# Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
Ethanol	not sensitising	Guinea pig	guinea pig	
64-17-5		maximisat		
		ion test		

# Germ cell mutagenicity:

Hazardous components	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of	activation /		
		administration	Exposure time		
Methyl acetate	negative	bacterial reverse	with and without		OECD Guideline 471
79-20-9		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Ethanol	negative	in vitro mammalian	without		
64-17-5		chromosome			
		aberration test			
	negative	bacterial reverse	with and without		OECD Guideline 471
		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)
Acetone	negative	bacterial reverse	with and without		OECD Guideline 471
67-64-1		mutation assay (e.g			(Bacterial Reverse Mutation
		Ames test)			Assay)

# Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Acetone	NOAEL=2500 ppm	oral:	13 weeks	rat	
67-64-1		drinking			
		water			

# **SECTION 12: Ecological information**

# General ecological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following. Do not empty into drains, soil or bodies of water.

# **12.1.** Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Methyl acetate	LC50	250 - 350 mg/l	Fish	96 h	Brachydanio rerio (new name:	OECD Guideline
79-20-9		Č			Danio rerio)	203 (Fish, Acute
					ŕ	Toxicity Test)
Methyl acetate	EC50	1.026,7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
79-20-9		•	_			202 (Daphnia sp.
						Acute
						Immobilisation
						Test)
Methyl acetate	EC50	> 120 mg/l	Algae	72 h	Scenedesmus subspicatus (new	OECD Guideline
79-20-9		•			name: Desmodesmus	201 (Alga, Growth
					subspicatus)	Inhibition Test)
Ethanol	LC50	14,2 g/l	Fish	96 h	Pimephales promelas	OECD Guideline
64-17-5		-				203 (Fish, Acute
						Toxicity Test)
Ethanol	EC50	9.268 - 14.221 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
64-17-5			_			202 (Daphnia sp.
						Acute
						Immobilisation
						Test)
Ethanol	EC50	> 5.000 mg/l	Algae	7 d	Scenedesmus quadricauda	OECD Guideline
64-17-5						201 (Alga, Growth
						Inhibition Test)
Ethanol	NOEC	2 mg/l	chronic	10 d		
64-17-5			Daphnia			
Acetone	LC50	8.120 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline
67-64-1						203 (Fish, Acute
						Toxicity Test)
Acetone	EC50	6.098,4 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
67-64-1						202 (Daphnia sp.
						Acute
						Immobilisation
						Test)

# 12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Methyl acetate 79-20-9	readily biodegradable	aerobic	> 70 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Ethanol 64-17-5	readily biodegradable	aerobic	80 - 85 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Acetone 67-64-1	readily biodegradable	aerobic	81 - 92 %	EU Method C.4-E (Determination of the "Ready" BiodegradabilityClosed Bottle Test)

# 12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components	LogKow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Methyl acetate	0,18					
79-20-9						
Ethanol	-0,31					
64-17-5						
Acetone	0,24					
67-64-1						

# 12.5. Results of PBT and vPvB assessment

Hazardous components	PBT/vPvB
CAS-No.	

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Ethanol 64-17-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.	Ì
Acetone	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	i
67-64-1	Bioaccumulative (vPvB) criteria.	i

## 12.6. Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product disposal:

Dispose of waste and residues in accordance with local authority requirements.

Disposal of uncleaned packages:

Use packages for recycling only when totally empty.

Waste code

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

# **SECTION 14: Transport information**

#### 14.1. UN number

ADR	1133
RID	1133
ADNR	1133
IMDG	1133
IATA	1133

# 14.2. UN proper shipping name

ADR	ADHESIVES
RID	ADHESIVES
ADNR	ADHESIVES
IMDG	ADHESIVES
IATA	Adhesives

# 14.3. Transport hazard class(es)

ADR	3
	3
RID	3
	3
ADNR	3
	3
MDG	3
	3
ATA	3
	3

# 14.4. Packaging group

ADR	II
RID	II
ADNR	II
IMDG	II
IATA	II

# 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADNR	not applicable
IMDG	not applicable
IATA	not applicable

# 14.6. Special precautions for user

ADR	Special provision 640D
	Tunnelcode: (D/E)
RID	Special provision 640D
ADNR	Special provision 640D
IMDG	not applicable
IATA	not applicable

# 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

# **SECTION 15: Regulatory information**

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(VOCV 814.018 VOC regulation CH)

## 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:

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

## **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.