

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

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SDS No.: 190437

V006.0 Revision: 31.05.2017

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LOCTITE LB 8040 known as Loctite 8040 Frz&Rel 400mlx12

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

#### 1.1. Product identifier

LOCTITE LB 8040 known as Loctite 8040 Frz&Rel 400mlx12

#### **Contains:**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

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

Intended use:

Lubricant

### 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):

Aerosols Category 1

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Skin irritation Category 2

H315 Causes skin irritation.

Chronic hazards to the aquatic environment Category 2

H411 Toxic to aquatic life with long lasting effects.

Specific target organ toxicity - single exposure Category 3

H336 May cause drowsiness or dizziness.

## 2.2. Label elements

### Label elements (CLP):

### Hazard pictogram:



Signal word: Danger

**Hazard statement:** H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

P251 Do not pierce or burn, even after use. **Precautionary statement:** 

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

P211 Do not spray on an open flame or other ignition source.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P102 Keep out of reach of children.

**Precautionary statement:** 

P261 Avoid breathing spray.

Prevention P273 Avoid release to the environment.

**Precautionary statement:** 

Response

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:

Lubricant

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Butane, n- (< 0.1 % butadiene) 106-97-8	203-448-7 01-2119474691-32	30- 50 %	Flam. Gas 1 H220 Press. Gas
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	295-763-1 01-2119475514-35	10- 20 %	Flam. Liq. 2
Propane 74-98-6	200-827-9 01-2119486944-21	10- 20 %	Flam. Gas 1 H220 Press. Gas H280
Isobutane 75-28-5	200-857-2 01-2119485395-27	10- 20 %	Flam. Gas 1 H220 Press. Gas
Kerosine (petroleum), hydrodesulfurized 64742-81-0	265-184-9	1- < 10 %	Aquatic Chronic 2 H411 Asp. Tox. 1 H304

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 if necessary.

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

SKIN: Redness, inflammation.

Prolonged or repeated contact may cause eye irritation.

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

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## **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:

Water

### 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

Ensure adequate ventilation.

Avoid contact with skin and eyes.

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.

### 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.

Vapours should be extracted to avoid inhalation.

Keep away from sources of ignition - no smoking.

Avoid skin and eye contact.

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 a cool, well-ventilated place.

Keep away from heat and direct sunlight.

Refer to Technical Data Sheet

### 7.3. Specific end use(s)

Lubricant

# 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
Butane 106-97-8 [BUTANE]	750	1.810	Short Term Exposure Limit (STEL):		EH40 WEL
Butane 106-97-8 [BUTANE]	600	1.450	Time Weighted Average (TWA):		EH40 WEL

### **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
Butane 106-97-8 [BUTANE]	1.000		Time Weighted Average (TWA):		IR_OEL
Propane 74-98-6 [PROPANE]	1.000		Time Weighted Average (TWA):		IR_OEL

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	Workers	dermal	Long term exposure - systemic effects		773 mg/kg	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	Workers	inhalation	Long term exposure - systemic effects		2035 mg/m3	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	General population	dermal	Long term exposure - systemic effects		699 mg/kg	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	General population	inhalation	Long term exposure - systemic effects		608 mg/m3	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	General population	oral	Long term exposure - systemic effects		699 mg/kg	

# **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)

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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; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### Eye protection:

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

Skin protection:

Wear suitable protective clothing.

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

Advices to personal protection equipment:

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

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

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

Appearance aerosol

colourless to yellowish characteristic

Odor

Odour threshold No data available / Not applicable

No data available / Not applicable pН Melting point No data available / Not applicable No data available / Not applicable Solidification temperature Initial boiling point No data available / Not applicable

Flash point -60 °C (-76 °F)

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

Explosive limits

lower 0.6%(V)10,9 %(V) upper 4000 mbar Vapour pressure

(25 °C (77 °F))

No data available / Not applicable Relative vapour density:

Density 0,6 g/cm3

(20 °C (68 °F))

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

Solubility (qualitative) Insoluble

(23 °C (73.4 °F); Solvent: Water)

Soluble Solubility (qualitative)

(23 °C (73.4 °F); Solvent: Acetone)

Partition coefficient: n-octanol/water No data available / Not applicable No data available / Not applicable Auto-ignition temperature No data available / Not applicable Decomposition temperature Viscosity No data available / Not applicable Viscosity (kinematic) No data available / Not applicable Explosive properties No data available / Not applicable

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Oxidising properties

No data available / Not applicable

### 9.2. Other information

Ignition temperature 230 °C (446 °F)

## **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

No decomposition if used according to specifications.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

Irritating organic vapours.

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

### 11.1. Information on toxicological effects

### General toxicological information:

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

#### STOT-single exposure:

May cause drowsiness or dizziness.

#### Oral toxicity:

May cause irritation to the digestive tract.

### Skin irritation:

Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.

Causes skin irritation.

### Eye irritation:

Prolonged or repeated contact may cause eye irritation.

### Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	LD50	> 5.000 mg/kg	oral		rat	OECD Guideline 401 (Acute Oral Toxicity)

# Acute inhalative toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Butane, n- (< 0.1 % butadiene)	LC50	274200 ppm	gas	4 h	rat	not specified
106-97-8 Propane 74-98-6	LC50	> 800000 ppm	gas	15 min	rat	not specified
Isobutane 75-28-5	LC50	260200 ppm	gas	4 h	mouse	not specified

# Acute dermal toxicity:

Hazardous components	Value	Value	Route of	Exposure	Species	Method
CAS-No.	type		application	time		
Hydrocarbons, C6-C7, n-	LD50	> 2.000 mg/kg	dermal		rat	OECD Guideline 402 (Acute
alkanes, isoalkanes,						Dermal Toxicity)
cyclics, <5% n-hexane						
92128-66-0						

## Skin corrosion/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time		

# Serious eye damage/irritation:

Hazardous components	Result	Exposure	Species	Method
CAS-No.		time	-	

## Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Butane, n- (< 0.1 % butadiene) 106-97-8	negative			Drosophila melanogaster	not specified
Propane 74-98-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Propane 74-98-6	negative			Drosophila melanogaster	not specified
Isobutane 75-28-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Isobutane 75-28-5	negative			Drosophila melanogaster	not specified

## Reproductive toxicity:

Hazardous substances	Result / Classification	Species	Exposure	Species	Method
CAS-No.			time		
Butane, n- (< 0.1 %	NOAEL $P = 21,4 \text{ mg/l}$			rat	OECD Guideline 422
butadiene)	NOAEL $F1 = 21,4 \text{ mg/l}$				(Combined Repeated Dose
106-97-8					Toxicity Study with the
					Reproduction /
					Developmental Toxicity
					Screening Test)

### Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
Butane, n- (< 0.1 % butadiene) 106-97-8		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Propane 74-98-6		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Isobutane 75-28-5		inhalation: gas	28 d	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

# **SECTION 12: Ecological information**

### General ecological information:

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

## 12.1. Toxicity

### **Ecotoxicity:**

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

Toxic to aquatic life with long lasting effects.

Hazardous components	Value	Value	Acute	Exposure	Species	Method
CAS-No.	type		Toxicity	time		
			Study			
Butane, n- (< 0.1 % butadiene) 106-97-8	LC50	27,98 mg/l	Fish	96 h		not specified
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	14,22 mg/l	Daphnia	48 h		not specified
Butane, n- (< 0.1 % butadiene) 106-97-8	EC50	7,71 mg/l	Algae	96 h		not specified
Hydrocarbons, C6-C7, n-	EC50	3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
alkanes, isoalkanes, cyclics,		· ·	-			202 (Daphnia sp.
<5% n-hexane						Acute
92128-66-0						Immobilisation
						Test)
Hydrocarbons, C6-C7, n-	NOEC	0,17 mg/l	chronic	21 d	Daphnia magna	OECD 211
alkanes, isoalkanes, cyclics,		, ,	Daphnia		1 6	(Daphnia magna,
<5% n-hexane						Reproduction Test)
92128-66-0						
Isobutane	EC50	7,71 mg/l	Algae	96 h		not specified
75-28-5	2000	,,, 1g 1	111840	, , , ,		not specified
Kerosine (petroleum),	EC50	> 1.000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline
hydrodesulfurized			- u <sub>F</sub>		F	202 (Daphnia sp.
64742-81-0						Acute
0.7.2010						Immobilisation
						Test)

### 12.2. Persistence and degradability

### Persistence and Biodegradability:

No data available.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
		F F		
Hydrocarbons, C6-C7, n-	readily biodegradable	aerobic	98 %	OECD Guideline 301 F (Ready
alkanes, isoalkanes, cyclics,				Biodegradability: Manometric
<5% n-hexane				Respirometry Test)
92128-66-0				

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

#### **Mobility:**

The product evaporates readily.

### **Bioaccumulative potential:**

No data available.

Hazardous components	LogPow	Bioconcentration	Exposure	Species	Temperature	Method
CAS-No.		factor (BCF)	time			
Isobutane	2,88				20 °C	OECD Guideline 107
75-28-5						(Partition Coefficient (n-
						octanol / water), Shake
						Flask Method)

#### 12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
Butane, n- (< 0.1 % butadiene) 106-97-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane 92128-66-0	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Propane 74-98-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Isobutane 75-28-5	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6. 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.

Collection and delivery to recycling enterprise or other registered elimination institution.

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

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

14 06 03 Other solvents and solvent mixtures

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.

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# **SECTION 14: Transport information**

#### 14.1. **UN** number

ADR	1950
RID	1950
ADN	1950
IMDG	1950
IATA	1950

#### 14.2. UN proper shipping name

ADR	AEROSOLS
RID	AEROSOLS
ADN	AEROSOLS

**IMDG** AEROSOLS (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-

hexane, Kerosine, hydrodesulfurized)

IATA Aerosols, flammable

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

ADR	2.1
RID	2.1
ADN	2.1
IMDG	2.1
IATA	2.1

#### 14.4. Packing group

ADR RID ADN **IMDG** IATA

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

ADR	Environmentally Hazardous
RID	<b>Environmentally Hazardous</b>
ADN	Environmentally Hazardous
D (DC	3.6

**IMDG** Marine pollutant **IATA** not applicable

#### 14.6. Special precautions for user

ADR	not applicable
	Tunnelcode: (D)
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

### 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:

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapor.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

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.