



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

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Loctite 7400 Varnistop

sds no. : 290260
V005.0

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

1.1. Product identifier

Loctite 7400 Varnistop

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

Intended use:

Coating

1.3. Details of the supplier of the safety data sheet

Henkel Limited
2 Bishop Square Business Park
AL109EY Herfordshire Hatfield

Great Britain

Phone: +44 1606 593933

Fax-no.: +44 1606 863762

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

Classification (DPD):

F - Highly flammable

R11 Highly flammable.

Xn - Harmful

R20 Harmful by inhalation.

Xi - Irritant

R36/37 Irritating to eyes and respiratory system.

R66 Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Label elements (DPD):

F - Highly flammable

Xn - Harmful

**Risk phrases:**

R11 Highly flammable.

R20 Harmful by inhalation.

R36/37 Irritating to eyes and respiratory system.

R66 Repeated exposure may cause skin dryness or cracking.

Safety phrases:

S23 Do not breathe vapour.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S37 Wear suitable gloves.

S51 Use only in well-ventilated areas.

Additional labeling:

For consumer use only: S2 Keep out of the reach of children

S46 If swallowed, seek medical advice immediately and show this container or label.

Contains:

4-Methylpentan-2-one

2.3. Other hazards

None if used properly.

SECTION 3: Composition/information on ingredients**General chemical description:**

Solvent based coating

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
4-Methylpentan-2-one 108-10-1	203-550-1 01-2119473980-30	> 25- < 50 %	Acute toxicity 4; Inhalation H332 Flammable liquids 2 H225 Serious eye irritation 2 H319 Specific target organ toxicity - single exposure 3 H335
n-Butyl acetate 123-86-4	204-658-1 01-2119485493-29	> 25- < 50 %	Flammable liquids 3 H226 Specific target organ toxicity - single exposure 3 H336
Cellulose nitrate 9004-70-0		> 10- < 25 %	Explosives 1.1 H201

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
n-Butyl acetate 123-86-4	204-658-1 01-2119485493-29	> 25 - < 50 %	R10 R66 R67
4-Methylpentan-2-one 108-10-1	203-550-1 01-2119473980-30	> 25 - < 50 %	F - Highly flammable; R11 Xi - Irritant; R36/37 Xn - Harmful; R20 R66
Cellulose nitrate 9004-70-0		> 10 - < 25 %	E - Explosive; R3

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****Inhalation:**

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

Skin contact:

Rinse with running water and soap.
Seek medical advice.

Eye 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

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

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

Extinguishing media which must not be used for safety reasons:

None known

5.2. Special hazards arising from the substance or mixture

Oxides of carbon, oxides of nitrogen, irritating organic vapors.

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.
Ensure adequate ventilation.
See advice in chapter 8

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.
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**

Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation.
Keep away from sources of ignition - no smoking.

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.

7.3. Specific end use(s)

Coating

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational Exposure Limits**

Valid for
Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
BUTYL ACETATE 123-86-4	150	724	Time Weighted Average (TWA):		EH40 WEL
BUTYL ACETATE 123-86-4	200	966	Short Term Exposure Limit (STEL):		EH40 WEL
4-METHYLPENTAN-2-ONE 108-10-1			Skin designation:	Can be absorbed through the skin.	EH40 WEL
4-METHYLPENTAN-2-ONE 108-10-1	50	208	Time Weighted Average (TWA):		EH40 WEL
4-METHYLPENTAN-2-ONE 108-10-1	100	416	Short Term Exposure Limit (STEL):		EH40 WEL
4-METHYLPENTAN-2-ONE 108-10-1	20	83	Time Weighted Average (TWA):	Indicative	ECLTV
4-METHYLPENTAN-2-ONE 108-10-1	50	208	Short Term Exposure Limit (STEL):	Indicative	ECLTV

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
n-Butyl acetate 123-86-4	aqua (freshwater)					0,18 mg/L	
n-Butyl acetate 123-86-4	aqua (marine water)					0,018 mg/L	
n-Butyl acetate 123-86-4	aqua (intermittent releases)					0,36 mg/L	
n-Butyl acetate 123-86-4	STP					35,6 mg/L	
n-Butyl acetate 123-86-4	sediment (freshwater)				0,981 mg/kg		
n-Butyl acetate 123-86-4	sediment (marine water)				0,0981 mg/kg		
n-Butyl acetate 123-86-4	soil				0,0903 mg/kg		
4-Methylpentan-2-one 108-10-1	aqua (freshwater)					0,6 mg/L	
4-Methylpentan-2-one 108-10-1	aqua (marine water)					0,06 mg/L	
4-Methylpentan-2-one 108-10-1	sediment (freshwater)				8,27 mg/kg		
4-Methylpentan-2-one 108-10-1	sediment (marine water)				0,83 mg/kg		
4-Methylpentan-2-one 108-10-1	soil				1,3 mg/kg		
4-Methylpentan-2-one 108-10-1	STP					27,5 mg/L	

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
n-Butyl acetate 123-86-4	worker	inhalation	Acute/short term exposure - systemic effects		960 mg/m3	
n-Butyl acetate 123-86-4	worker	inhalation	Acute/short term exposure - local effects		960 mg/m3	
n-Butyl acetate 123-86-4	worker	inhalation	Long term exposure - systemic effects		480 mg/m3	
n-Butyl acetate 123-86-4	worker	inhalation	Long term exposure - local effects		480 mg/m3	
n-Butyl acetate 123-86-4	general population	inhalation	Acute/short term exposure - systemic effects		859,7 mg/m3	
n-Butyl acetate 123-86-4	general population	inhalation	Acute/short term exposure - local effects		859,7 mg/m3	
n-Butyl acetate 123-86-4	general population	inhalation	Long term exposure - systemic effects		102,34 mg/m3	
4-Methylpentan-2-one 108-10-1	worker	inhalation	Acute/short term exposure - systemic effects		208 mg/m3	
4-Methylpentan-2-one 108-10-1	worker	inhalation	Acute/short term exposure - local effects		208 mg/m3	
4-Methylpentan-2-one 108-10-1	worker	inhalation	Long term exposure - systemic effects		83 mg/m3	
4-Methylpentan-2-one 108-10-1	worker	inhalation	Long term exposure - local effects		83 mg/m3	
4-Methylpentan-2-one 108-10-1	worker	dermal	Long term exposure - systemic effects		11,8 mg/kg bw/day	
4-Methylpentan-2-one 108-10-1	general population	inhalation	Acute/short term exposure - systemic effects		155,2 mg/m3	
4-Methylpentan-2-one 108-10-1	general population	inhalation	Acute/short term exposure - local effects		155,2 mg/m3	
4-Methylpentan-2-one 108-10-1	general population	inhalation	Long term exposure - systemic effects		14,7 mg/m3	
4-Methylpentan-2-one 108-10-1	general population	inhalation	Long term exposure - local effects		14,7 mg/m3	
4-Methylpentan-2-one 108-10-1	general population	dermal	Long term exposure - systemic effects		4,2 mg/kg bw/day	
4-Methylpentan-2-one 108-10-1	general population	oral	Long term exposure - systemic effects		4,2 mg/kg bw/day	

Biological Exposure Indices:

Ingredient	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
4-METHYLPENTAN-2-ONE 108-10-1	4-methylpentan-2-one	Urine	Sampling time: End of shift.		UKEH40BMG V		

8.2. Exposure controls:

Respiratory protection:

Use only in well-ventilated areas.

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.

Eye protection:

Wear protective glasses.

Skin protection:

Wear suitable protective clothing.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Appearance	liquid red
Odor	characteristic
Odour threshold	No data available / Not applicable
pH	No data available / Not applicable
Initial boiling point	114 °C (237.2 °F)
Flash point	12 °C (53.6 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	58,7 mbar
Density (20 °C (68 °F))	0,97 g/cm ³
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) (Solvent: Water)	Not miscible
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	
lower	1,7 % (V)
upper	10,4 % (V)
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
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 strong acids.
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

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

Irritating organic vapours.

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.

Oral toxicity:

May cause irritation to the digestive tract.

Inhalative toxicity:

Harmful by inhalation.
Irritating to respiratory system
Vapors may cause drowsiness and dizziness.

Skin irritation:

Solvent may remove essential oils from the skin making it susceptible to attack from other chemicals.
Prolonged or repeated contact may cause skin irritation.

Eye irritation:

Irritating to eyes.

Acute oral toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
n-Butyl acetate 123-86-4	LD50	> 8.800 mg/kg	oral		rat	

Acute inhalative toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
n-Butyl acetate 123-86-4	LC50	> 23,4 mg/l	inhalation	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
4-Methylpentan-2-one 108-10-1	LC50	8,2 - 16,4 mg/l	inhalation	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
n-Butyl acetate 123-86-4	not irritating		rabbit	
4-Methylpentan-2-one 108-10-1	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
n-Butyl acetate 123-86-4	not irritating		rabbit	
4-Methylpentan-2-one 108-10-1	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
n-Butyl acetate 123-86-4	not sensitising	Guinea pig maximisation test	guinea pig	
4-Methylpentan-2-one 108-10-1	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
n-Butyl acetate 123-86-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
4-Methylpentan-2-one 108-10-1	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)

SECTION 12: Ecological information**General ecological information:**

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

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.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
n-Butyl acetate 123-86-4	LC50	62 mg/l	Fish	96 h	Leuciscus idus	
n-Butyl acetate 123-86-4	EC50	72,8 mg/l	Daphnia	24 h	Daphnia magna	
n-Butyl acetate 123-86-4	EC50	674,7 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
4-Methylpentan-2-one 108-10-1	LC50	600 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
4-Methylpentan-2-one 108-10-1	EC50	170 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-Methylpentan-2-one 108-10-1	EC50	400 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Cellulose nitrate 9004-70-0	LC50	> 1.000 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Cellulose nitrate 9004-70-0	EC50	> 1.000 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Cellulose nitrate 9004-70-0	ErC50	> 90.000 mg/l	Algae	72 h	Scenedesmus sp.	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability**Persistence and Biodegradability:**

No data available.

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
n-Butyl acetate 123-86-4	readily biodegradable	aerobic	98 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
4-Methylpentan-2-one 108-10-1	readily biodegradable	aerobic	99 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Cellulose nitrate 9004-70-0	readily biodegradable	no data	> 60 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil**Mobility:**

The product is insoluble and floats on water.
The product evaporates readily.

Bioaccumulative potential:

No data available.

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
n-Butyl acetate 123-86-4	1,81				23 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)
4-Methylpentan-2-one 108-10-1	1,31				20 °C	

12.5. Results of PBT and vPvB assessment

Hazardous components CAS-No.	PBT/vPvB
n-Butyl acetate 123-86-4	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
4-Methylpentan-2-one 108-10-1	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Cellulose nitrate 9004-70-0	Not fulfilling PBT (persistent/bioaccumulative/toxic) 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.

Disposal of uncleaned packages:

Disposal must be made according to official regulations.

Waste code

14 06 03 - other solvents and solvent mixtures

SECTION 14: Transport information**14.1. UN number**

ADR	1993
RID	1993
ADNR	1993
IMDG	1993
IATA	1993

14.2. UN proper shipping name

ADR	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
RID	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
ADNR	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
IMDG	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
IATA	Flammable liquid, n.o.s. (Methyl isobutyl ketone,Butylacetate)

14.3. Transport hazard class(es)

ADR	3
	3
RID	3
	3
ADNR	3
	3
IMDG	3
	3
IATA	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**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC content

74,74 %

(1999/13/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:

- R10 Flammable.
- R11 Highly flammable.
- R20 Harmful by inhalation.
- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R36/37 Irritating to eyes and respiratory system.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- H201 Explosive; mass explosion hazard.
- H225 Highly flammable liquid and vapor.
- H226 Flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory 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.

This safety data sheet was prepared in accordance with Council Directive 67/548/EEC and its subsequent amendments, and Commission Directive 1999/45/EC.