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

sds no. : 290260
V003.2

Loctite 7400 Varnistop

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

Product identifier:
Loctite 7400 Varnistop

Relevant identified uses of the substance or mixture and uses advised against:
Intended use:
Coating

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
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ua-productsafety.uk@uk.henkel.com

Emergency Telephone Number:
24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

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.

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.
R67 Vapours may cause drowsiness and dizziness.

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

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	> 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	> 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

Only dangerous ingredients for which a CLP classification is already available are displayed in this table.
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	>= 25 - < 50 %	R10 R66 R67
4-Methylpentan-2-one 108-10-1	203-550-1	>= 25 - < 50 %	F - Highly flammable; R11 Xi - Irritant; R36/37 Xn - Harmful; R20 R66
Cellulose nitrate 9004-70-0		>= 20 - < 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

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.

Most important symptoms and effects, both acute and delayed:
Vapors may cause drowsiness and dizziness.

Indication of any immediate medical attention and special treatment needed:
See section: Description of first aid measures

SECTION 5: Firefighting measures

Extinguishing media:
Suitable extinguishing media:
Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons:
None known

Special hazards arising from the substance or mixture:
Oxides of carbon, oxides of nitrogen, irritating organic vapors.

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

Personal precautions, protective equipment and emergency procedures:
Avoid skin and eye contact.
Ensure adequate ventilation.
See advice in chapter 8

Environmental precautions:
Do not let product enter drains.

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.

Reference to other sections:
See advice in chapter 8

SECTION 7: Handling and storage

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.
Use only personal protection that's CE-labelled according to the regulation no. 819 of 19 August 1994.

Conditions for safe storage, including any incompatibilities:
Store in a cool, well-ventilated place.
Keep away from heat and direct sunlight.

Specific end use(s):
Coating

SECTION 8: Exposure controls/personal protection

Control parameters:
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	100	416	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	20	83	Time Weighted Average (TWA):	Indicative	ECTLV
4-METHYLPENTAN-2-ONE 108-10-1	50	208	Short Term Exposure Limit (STEL):	Indicative	ECTLV

Exposure controls:

Respiratory protection:
Use only in well-ventilated areas.

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

Information on basic physical and chemical properties:

Appearance	liquid liquid red
Odor	characteristic
pH	No data available / Not applicable
Initial boiling point	78 °C (172.4 °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))	0,8 g/cm3
Density (20 °C (68 °F))	0,92 g/cm3
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	15 %(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

Other information:

No data available / Not applicable

SECTION 10: Stability and reactivity

Reactivity:
Reaction with strong acids.
Reacts with strong oxidants.

Chemical stability:
Stable under recommended storage conditions.

Possibility of hazardous reactions:
See section reactivity

Conditions to avoid:
Stable

Incompatible materials:
No data available.

Hazardous decomposition products:
Irritating organic vapours.

SECTION 11: Toxicological information

General toxicological information:
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation 1272/2008/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

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 toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
n-Butyl acetate 123-86-4	LD50 LC50	> 8.800 mg/kg > 23,4 mg/l	oral inhalation	 4 h	rat 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	irritating		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	not 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.

Mobility:

The product is insoluble and floats on water.

Persistence and Biodegradability:

No data available.

Bioaccumulative potential:

No data available.

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)

Persistence and degradability:

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)

Bioaccumulative potential / Mobility in soil:

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	

SECTION 13: Disposal considerations

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

Road transport ADR:

Class:	3
Packaging group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1993
Label:	3
Technical name:	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
Tunnelcode:	(D/E)
Additional information:	Special provision 640D

Railroad transport RID:

Class:	3
Packaging group:	II
Classification code:	F1
Hazard ident. number:	33
UN no.:	1993
Label:	3
Technical name:	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
Tunnelcode:	
Additional information:	Special provision 640D

Inland water transport ADN:

Class:	3
Packaging group:	II
Classification code:	F1
Hazard ident. number:	
UN no.:	1993
Label:	3
Technical name:	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)
Additional information:	Special provision 640D

Marine transport IMDG:

Class:	3
Packaging group:	II
UN no.:	1993
Label:	3
EmS:	F-E ,S-E
Seawater pollutant:	-
Proper shipping name:	FLAMMABLE LIQUID, N.O.S. (Methyl isobutyl ketone,Butylacetate)

Air transport IATA:

Class:	3
Packaging group:	II
Packaging instructions (passenger)	353
Packaging instructions (cargo)	364
UN no.:	1993
Label:	3
Proper shipping name:	Flammable liquid, n.o.s. (Methyl isobutyl ketone,Butylacetate)

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

VOC content	77,24 %

(1999/13/EC)

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 it's subsequent amendments, and Commission Directive 1999/45/EC.