



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

Page 1 of 9

Loctite 770

sds no. : 153555
V003.2

Revision: 15.02.2011
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1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Loctite 770

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

Intended use:

Primer, containing solvents

Details of the supplier of the safety data sheet:

Henkel Ireland Limited
Product Safety & Regulatory Affairs
Tallaght Business Park, Whitestown
Dublin 24

Ireland

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Emergency telephone number:

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

2. Hazards identification

Classification of the substance or mixture:

Classification (DPD):

F - Highly flammable

R11 Highly flammable.

Xn - Harmful

R65 Harmful: may cause lung damage if swallowed.

Xi - Irritant

R38 Irritating to skin.

N - Dangerous for the environment

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

Label elements (DPD):

F - Highly flammable

Xn - Harmful

N - Dangerous for the
environment**Risk phrases:**

R11 Highly flammable.

R38 Irritating to skin.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S16 Keep away from sources of ignition - No smoking.

S23 Do not breathe vapour.

S28 After contact with skin, wash immediately with plenty of water and soap.

S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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:

n-Heptane

Other hazards:

None if used properly.

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

Primer, containing solvents

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
n-Heptane 142-82-5	205-563-8	80- 100 %	Flammable liquids 2 H225 Aspiration hazard 1 H304 Skin irritation 2 H315 Specific target organ toxicity - single exposure 3 H336 Acute hazards to the aquatic environment 1 H400 Chronic hazards to the aquatic environment 1 H410

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-Heptane 142-82-5	205-563-8	80 - 100 %	N - Dangerous for the environment; R50, R53 Xi - Irritant; R38 R67 F - Highly flammable; R11 Xn - Harmful; R65

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.

Declaration of ingredients according to Detergent Regulation 648/2004/EC

> 30 % aliphatic hydrocarbons

4. First aid measures**Description of first aid measures:****Inhalation:**

Move to fresh air.
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 mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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:

Move to fresh air, consult doctor if complaint persists.

5. Firefighting measures**Combustion behaviour:**

Solvent containing flammable product. In case of fire toxic gases are released.

Extinguishing media:**Suitable extinguishing media:**

Foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

None known

Special hazards arising from the substance or mixture:

Do not expose to direct heat.
Oxides of carbon, oxides of nitrogen, irritating organic vapors.

Advice for firefighters:

Wear self-contained breathing apparatus.

Additional information:

In case of fire, keep containers cool with water spray.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
See advice in chapter 8

Environmental precautions:

Do not let product enter drains.

Methods and material for containment and cleaning up:

Wipe up using absorbent material
Store in a partly filled, closed container until disposal.
Dispose of contaminated material as waste according to Chapter 13.

7. Handling and storage

Precautions for safe handling:

Use only in well-ventilated areas.

Hygiene measures:

Good industrial hygiene practices should be observed.
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

Conditions for safe storage, including any incompatibilities:

Store in a cool, dry place.
Do not store near sources of heat or ignition, or reactive materials.

Specific end use(s):

Primer, containing solvents

8. Exposure controls/personal protection

Control parameters:

Valid for
Great Britain
Basis
UK EH40 WELs

Ingredient	ppm	mg/m3	Type	Category	Remarks
N-HEPTANE 142-82-5	500		Time Weighted Average (TWA):		EH40 WEL
N-HEPTANE 142-82-5	500	2.085	Time Weighted Average (TWA):	Indicative	ECLTV

Exposure controls:

Respiratory protection:
Use only in well-ventilated areas.

Hand protection:

The use of chemical resistant gloves such as Nitrile are recommended.

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.

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.

9. Physical and chemical properties

Information on basic physical and chemical properties:

Appearance	liquid transparent transparent, colourless, clear
Odor	Aliphatic
pH	not applicable
Initial boiling point	96 - 98 °C (204.8 - 208.4 °F)
Flash point	-2 °C (28.4 °F)
Decomposition temperature	No data available / Not applicable
Vapour pressure (20 °C (68 °F))	35 mm hg
Density (ρ)	0,68 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
Solubility (qualitative)	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	No data available / Not applicable
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

10. Stability and reactivity

Reactivity:

Strong oxidizing agents.

Chemical stability:

Stable under recommended storage conditions.

Possibility of hazardous reactions:

See section reactivity

Conditions to avoid:

Stable under normal conditions of storage and use.

Incompatible materials:

No data available.

Hazardous decomposition products:

carbon oxides.

11. Toxicological information

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:

Health hazard: may damage lungs if swallowed.

Inhalative toxicity:

May cause headache and dizziness.

Skin irritation:

Irritating to the skin.

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

Eye irritation:

May cause mild irritation to the eyes.

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
n-Heptane 142-82-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

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.

Toxic to aquatic organisms

May cause long-term adverse effects in the aquatic environment.

Ecotoxicity:

Very toxic to aquatic organisms.

May cause long-term adverse effects in the aquatic environment.

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

Mobility:

The product evaporates readily.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
n-Heptane 142-82-5	LC50	220 - 270 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
n-Heptane 142-82-5	EC50	1,5 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
n-Heptane 142-82-5	4,66					

13. Disposal considerations

Waste treatment methods:

Product disposal:

Dispose of according to regulations.

Disposal of uncleaned packages:

Dispose of in accordance with local and national regulations.

Waste code

14 06 03 Other solvents and solvent mixtures

14. Transport information

Road transport ADR:

Class: 3
 Packaging group: II
 Classification code: F1
 Hazard ident. number: 33
 UN no.: 1206
 Label: 3
 Technical name: HEPTANES (solution)
 Tunnelcode: (D/E)
 Additional substance property: Environmentally Hazardous

Railroad transport RID:

Class: 3
 Packaging group: II
 Classification code: F1
 Hazard ident. number: 33
 UN no.: 1206
 Label: 3
 Technical name: HEPTANES (solution)
 Tunnelcode:
 Additional substance property: Environmentally Hazardous

Inland water transport ADN:

Class: 3
Packaging group: II
Classification code: F1
Hazard ident. number:
UN no.: 1206
Label: 3
Technical name: HEPTANES (solution)
Additional substance property: Environmentally Hazardous

Marine transport IMDG:

Class: 3
Packaging group: II
UN no.: 1206
Label: 3
EmS: F-E ,S-D
Seawater pollutant: Marine pollutant
Proper shipping name: HEPTANES (solution)

Air transport IATA:

Class: 3
Packaging group: II
Packaging instructions (passenger): 305
Packaging instructions (cargo): 307
UN no.: 1206
Label: 3
Proper shipping name: Heptanes (solution)

15. Regulatory information

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

VOC content 100 %
(1999/13/EC)

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.
- R38 Irritating to skin.
- R50 Very toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.
- R67 Vapours may cause drowsiness and dizziness.
- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Further information:

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

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.