



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

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Loctite 7840 20L Multi

sds no. : 387983
V002.3

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

1.1. Product identifier

Loctite 7840 20L Multi

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

Intended use:
Cleaner

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):

R36 Irritating to eyes.

2.2. Label elements

Label elements (DPD):

Xi - Irritant

**Risk phrases:**

R36 Irritating to eyes.

Safety phrases:

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

2.3. Other hazards

None if used properly.

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

Cleaner

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

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
1-Methoxy -2-propanol 107-98-2	203-539-1 01-2119457435-35	> 1- < 10 %	Flammable liquids 3 H226 Specific target organ toxicity - single exposure 3 H336
Tetrasodium ethylenediaminetetraacetate 64-02-8	200-573-9 01-2119486762-27	> 1- < 5 %	Acute toxicity 4 H332 Acute toxicity 4; Oral H302 Serious eye damage 1 H318
2-aminoethanol 141-43-5	205-483-3 01-2119486455-28	> 1- < 5 %	Acute toxicity 4; Inhalation H332 Acute toxicity 4; Dermal H312 Skin corrosion 1B H314 Acute toxicity 4; Oral H302

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
1-Methoxy -2-propanol 107-98-2	203-539-1 01-2119457435-35	> 1- < 10 %	R67 R10
Tetrasodium ethylenediaminetetraacetate 64-02-8	200-573-9 01-2119486762-27	> 1- < 5 %	Xn - Harmful; R20 Xn - Harmful; R22 Xi - Irritant; R41
2-aminoethanol 141-43-5	205-483-3 01-2119486455-28	> 1- < 5 %	Xn - Harmful; R20/21/22 C - Corrosive; R34

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**

5 - 15 %	non-ionic surfactants
< 5 %	anionic surfactants
contains	Perfumes

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.

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

Irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

Combustion behaviour:

Non-flammable (aqueous solution).

5.1. Extinguishing media

Suitable extinguishing media:

water, 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.

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 contact with skin and eyes.
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.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid skin and eye contact.

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.

7.3. Specific end use(s)

Cleaner

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

Valid for

Great Britain

Ingredient	ppm	mg/m ³	Type	Category	Remarks
2-AMINOETHANOL 141-43-5			Skin designation:	Can be absorbed through the skin.	EH40 WEL
2-AMINOETHANOL 141-43-5	1	2,5	Time Weighted Average (TWA):		EH40 WEL
2-AMINOETHANOL 141-43-5	3	7,6	Short Term Exposure Limit (STEL):		EH40 WEL
2-AMINOETHANOL 141-43-5	3	7,6	Short Term Exposure Limit (STEL):	Indicative	ECLTV
2-AMINOETHANOL 141-43-5	1	2,5	Time Weighted Average (TWA):	Indicative	ECLTV
1-METHOXYPROPAN-2-OL 107-98-2	100	375	Time Weighted Average (TWA):		EH40 WEL
1-METHOXYPROPAN-2-OL 107-98-2			Skin designation:	Can be absorbed through the skin.	EH40 WEL
1-METHOXYPROPAN-2-OL 107-98-2	150	560	Short Term Exposure Limit (STEL):		EH40 WEL
1-METHOXYPROPANOL-2 107-98-2	100	375	Time Weighted Average (TWA):	Indicative	ECLTV
1-METHOXYPROPANOL-2 107-98-2	150	568	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	
1-Methoxy -2-propanol 107-98-2	aqua (freshwater)					10 mg/L	
1-Methoxy -2-propanol 107-98-2	aqua (marine water)					1 mg/L	
1-Methoxy -2-propanol 107-98-2	aqua (intermittent releases)					100 mg/L	
1-Methoxy -2-propanol 107-98-2	sediment (freshwater)				52,3 mg/kg		
1-Methoxy -2-propanol 107-98-2	aqua (marine water)				5,2 mg/kg		
1-Methoxy -2-propanol 107-98-2	soil				5,49 mg/kg		
1-Methoxy -2-propanol 107-98-2	STP					100 mg/L	
Tetrasodium ethylenediaminetetraacetate 64-02-8	aqua (freshwater)					2,2 mg/L	
Tetrasodium ethylenediaminetetraacetate 64-02-8	aqua (marine water)					0,22 mg/L	
Tetrasodium ethylenediaminetetraacetate 64-02-8	aqua (intermittent releases)					1,2 mg/L	
Tetrasodium ethylenediaminetetraacetate 64-02-8	soil				0,72 mg/kg		
Tetrasodium ethylenediaminetetraacetate 64-02-8	STP					43 mg/L	
2-Aminoethanol 141-43-5	aqua (freshwater)					0,085 mg/L	
2-Aminoethanol 141-43-5	aqua (marine water)					0,0085 mg/L	
2-Aminoethanol 141-43-5	aqua (intermittent releases)					0,025 mg/L	
2-Aminoethanol 141-43-5	sediment (freshwater)				0,425 mg/kg		
2-Aminoethanol 141-43-5	sediment (marine water)				0,0425 mg/kg		
2-Aminoethanol 141-43-5	soil				0,035 mg/kg		
2-Aminoethanol 141-43-5	STP					100 mg/L	

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
1-Methoxy -2-propanol 107-98-2	worker	inhalation	Acute/short term exposure - local effects		553,5 mg/m ³	
1-Methoxy -2-propanol 107-98-2	worker	dermal	Long term exposure - systemic effects		50,6 mg/kg bw/day	
1-Methoxy -2-propanol 107-98-2	worker	inhalation	Long term exposure - systemic effects		369 mg/m ³	
1-Methoxy -2-propanol 107-98-2	general population	dermal	Long term exposure - systemic effects		18,1 mg/kg bw/day	
1-Methoxy -2-propanol 107-98-2	general population	inhalation	Long term exposure - systemic effects		43,9 mg/m ³	
1-Methoxy -2-propanol 107-98-2	general population	oral	Long term exposure - systemic effects		3,3 mg/kg bw/day	
Tetrasodium ethylenediaminetetraacetate 64-02-8	worker	inhalation	Long term exposure - local effects		2,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	worker	inhalation	Long term exposure - systemic effects		2,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	worker	inhalation	Acute/short term exposure - local effects		2,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	worker	inhalation	Acute/short term exposure - systemic effects		2,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	general population	inhalation	Long term exposure - local effects		1,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	general population	inhalation	Long term exposure - systemic effects		1,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	general population	inhalation	Acute/short term exposure - local effects		1,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	general population	inhalation	Acute/short term exposure - systemic effects		1,5 mg/m ³	
Tetrasodium ethylenediaminetetraacetate 64-02-8	general population	oral	Long term exposure - systemic effects		25 mg/kg bw/day	
2-Aminoethanol 141-43-5	worker	dermal	Long term exposure - systemic effects		1 mg/kg	
2-Aminoethanol 141-43-5	worker	inhalation	Long term exposure - systemic effects		3,3 mg/m ³	
2-Aminoethanol 141-43-5	general population	dermal	Long term exposure - systemic effects		0,24 mg/kg	
2-Aminoethanol 141-43-5	general population	inhalation	Long term exposure - local effects		2 mg/m ³	
2-Aminoethanol 141-43-5	general population	oral	Long term exposure - systemic effects		3,75 mg/kg	

8.2. Exposure controls:

Respiratory protection:
Ensure adequate ventilation.

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.

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

Appearance	liquid
	blue
Odor	mild
pH	10
()	
Initial boiling point	> 100 °C (> 212 °F)
Flash point	Aqueous solution
Decomposition temperature	No data available / Not applicable
Vapour pressure	Not determined
Density	1,02 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)	Soluble
(Solvent: Water)	
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

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

None known

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use.

10.5. Incompatible materials

None if used properly.

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:

This material is considered to have low toxicity if swallowed.

Inhalative toxicity:

Due to the low volatility of the product there are no hazards associated with inhalation under normal conditions of use

Dermal toxicity:

This product is considered to have low dermal toxicity.

Skin irritation:

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
1-Methoxy -2-propanol 107-98-2	LD50 LC50 LD50	5.900 mg/kg 54,6 mg/l 13.000 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	
Tetrasodium ethylenediaminetetraaceta te 64-02-8	LD50 LOAEC	1.780 - 2.000 mg/kg	oral inhalation		rat rat	
2-aminoethanol 141-43-5	LD50 LC50 LD50	1.970 mg/kg 1 - 5 mg/l 1.025 mg/kg	oral inhalation dermal	4 h	rat rat rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1-Methoxy -2-propanol 107-98-2	not irritating		rabbit	
Tetrasodium ethylenediaminetetraaceta te 64-02-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-aminoethanol 141-43-5	corrosive		rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
1-Methoxy -2-propanol 107-98-2	slightly irritating		rabbit	
Tetrasodium ethylenediaminetetraaceta te 64-02-8	irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-aminoethanol 141-43-5	corrosive		rabbit	

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
1-Methoxy -2-propanol 107-98-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Tetrasodium ethylenediaminetetraacetate 64-02-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
2-aminoethanol 141-43-5	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		

Repeated dose toxicity

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
1-Methoxy -2-propanol 107-98-2	NOAEL=1000 ppm	inhalation	13 weeks 6 hours/day; 5 days/week	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

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.

Persistence and degradability:**Degradation of surfactants**

The biodegradability of the surfactants contained in the product is in accordance with the requirements of the EU Detergent Regulation (EC/648/2004).

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
1-Methoxy -2-propanol 107-98-2	LC50	20.800 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
1-Methoxy -2-propanol 107-98-2	EC50	23.300 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1-Methoxy -2-propanol 107-98-2	EC50	> 1.000 mg/l	Algae	7 d	Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Tetrasodium ethylenediaminetetraacetate 64-02-8	LC50	532 mg/l	Fish	96 h	Lepomis macrochirus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Tetrasodium ethylenediaminetetraacetate 64-02-8	EC50	625 mg/l	Daphnia	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-aminoethanol 141-43-5	NOEC	1.221 mg/l	Fish		Brachydanio rerio (new name: Danio rerio)	
2-aminoethanol 141-43-5	LC50	> 250 mg/l	Fish	48 h	Leuciscus idus	
2-aminoethanol 141-43-5	EC50	85 mg/l	Daphnia	24 h	Daphnia magna	
2-aminoethanol 141-43-5	EC50	15 mg/l	Algae	72 h	Pseudokirchnerella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
1-Methoxy -2-propanol 107-98-2	readily biodegradable	aerobic	90 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
Tetrasodium ethylenediaminetetraacetate 64-02-8		no data	10 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)
2-aminoethanol 141-43-5	readily biodegradable	aerobic	100 %	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
1-Methoxy -2-propanol 107-98-2	-0,49					
Tetrasodium ethylenediaminetetraacetate 64-02-8	-13,17					
2-aminoethanol 141-43-5	-1,91				25 °C	OECD Guideline 107 (Partition Coefficient (n- octanol / water), Shake Flask Method)

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Product disposal:

Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

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.

Disposal must be made according to official regulations.

SECTION 14: Transport information**General information:**

Not hazardous according to RID, ADR, ADNR, IMDG, IATA-DGR.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**VOC content < 10 %
(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.
- R20 Harmful by inhalation.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
- R22 Harmful if swallowed.
- R34 Causes burns.
- R41 Risk of serious damage to eyes.
- R67 Vapours may cause drowsiness and dizziness.
- H226 Flammable liquid and vapor.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- 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.