



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

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TEROSON WX 180

SDS No. : 75576  
V010.0

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

#### 1.1. Product identifier

TEROSON WX 180

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

Intended use:

Car polish

#### 1.3. Details of the supplier of the safety data sheet

Henkel Ltd

Adhesives

Wood Lane End

HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

#### 1.4. Emergency telephone number

24 Hours Emergency Tel: +44 0 8701 906777 - For further general health & safety, technical and practical advice on this product, please call +44 (0) 1606 593933 or write to: Technical Services; Henkel Limited; Road 5; Winsford Industrial Estate; Winsford; Cheshire; CW7 3QY- Email: [technical.services@henkel.co.uk](mailto:technical.services@henkel.co.uk)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Flammable liquids	Category 3
H226 Flammable liquid and vapour.	
Specific target organ toxicity - single exposure	Category 3
H336 May cause drowsiness or dizziness.	
Specific target organ toxicity - repeated exposure	Category 1
H372 Causes damage to organs through prolonged or repeated exposure.	
Chronic hazards to the aquatic environment	Category 2
H411 Toxic to aquatic life with long lasting effects.	

#### 2.2. Label elements

##### Label elements (CLP):

**Hazard pictogram:****Contains**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Signal word:**

Danger

**Hazard statement:**

H226 Flammable liquid and vapour.  
H336 May cause drowsiness or dizziness.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

**Supplemental information**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Precautionary statement:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P260 Do not breathe vapours.  
P273 Avoid release to the environment.

**Precautionary statement:  
Response**P370+P378 In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction.**2.3. Other hazards**

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.

The solvent vapors are heavier than air and may collect in high concentrations at floor level.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

This mixture does not contain any substances in concentration  $\geq$  the concentration limit that are assessed to be a PBT, vPvB or ED.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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

<b>Hazardous components CAS-No. EC Number REACH-Reg No.</b>	<b>Concentration</b>	<b>Classification</b>	<b>Specific Conc. Limits, M- factors and ATEs</b>	<b>Add. Information</b>
Hydrocarbons, C9-C10, n- alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3 01-2119463586-28	20- 40 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT RE 1, Inhalation, H372 STOT SE 3, H336 Aquatic Chronic 2, H411		
Kieselguhr 61790-53-2 231-545-4	5- < 10 %	STOT RE 2, Inhalation, H373		
Morpholine 110-91-8 203-815-1 01-2119496057-30	0,1- < 1 %	Flam. Liq. 3, H226 Acute Tox. 4, Oral, H302 Acute Tox. 3, Dermal, H311 Acute Tox. 3, Inhalation, H331 Skin Corr. 1B, H314 Repr. 2, H361fd	inhalation:ATE = 3 mg/l;vapour	EU OEL

**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:**

Fresh air, oxygen supply, warmth; seek specialist medical attention.

**Skin contact:**

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

**Eye contact:**

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

**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**

Vapors may cause drowsiness and dizziness.

Repeated exposure may cause skin dryness or cracking.

**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:**

All common extinguishing agents are suitable.

**Extinguishing media which must not be used for safety reasons:**

Water jet (solvent-containing product).

**5.2. Special hazards arising from the substance or mixture**

In case of fire toxic gases can be released.

**5.3. Advice for firefighters**

Wear protective equipment.

Wear self-contained breathing apparatus.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

Danger of slipping on spilled product.

**6.2. Environmental precautions**

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

Inform authorities in the event of product spillage to water courses or sewage systems.

**6.3. Methods and material for containment and cleaning up**

Remove with liquid-absorbing material (sand, peat, sawdust).

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

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

Avoid open flames and sources of ignition.

Use explosion proof electric equipment.

Use only non-sparking tools.

Ground/bond container and receiving equipment.

Take precautionary measures against static discharge.

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

**7.2. Conditions for safe storage, including any incompatibilities**

Ensure good ventilation/extraction.

Store in a cool, frost-free place.

Storage at 15 to 20°C is recommended.

**7.3. Specific end use(s)**

Car polish

## 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
Natural compound of quartz and kaolinite 1020665-14-8 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Natural compound of quartz and kaolinite 1020665-14-8 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silicon dioxide 61790-53-2 [DIATOMACEOUS EARTH, NATURAL, RESPIRABLE DUST]		1,2	Time Weighted Average (TWA):		EH40 WEL
Morpholine 110-91-8 [MORPHOLINE]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Morpholine 110-91-8 [MORPHOLINE]	10	36	Time Weighted Average (TWA):		EH40 WEL
Morpholine 110-91-8 [MORPHOLINE]	20	72	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Morpholine 110-91-8 [MORPHOLINE]	10	36	Time Weighted Average (TWA):	Indicative	ECTLV
Morpholine 110-91-8 [MORPHOLINE]	20	72	Short Term Exposure Limit (STEL):	15 minutes	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
Natural compound of quartz and kaolinite 1020665-14-8 [SILICA, AMORPHOUS, TOTAL INHALABLE DUST]		6	Time Weighted Average (TWA):		IR_OEL
Natural compound of quartz and kaolinite 1020665-14-8 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 61790-53-2 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 61790-53-2 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 61790-53-2 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Silicon dioxide 61790-53-2 [DUSTS NON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Morpholine 110-91-8 [MORPHOLINE]	10	36	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Morpholine 110-91-8 [MORPHOLINE]			Skin designation:	Can be absorbed through the skin.	IR_OEL
Morpholine	20	72	Short Term Exposure	Indicative	ECTLV

110-91-8 [MORPHOLINE]			Limit (STEL):		
Morpholine 110-91-8 [MORPHOLINE]	10	36	Time Weighted Average (TWA):	Indicative	ECLTV
Morpholine 110-91-8 [MORPHOLINE]	20	72	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Morpholine 110-91-8	aqua (freshwater)		0,1 mg/l				
Morpholine 110-91-8	aqua (marine water)		0,01 mg/l				
Morpholine 110-91-8	aqua (intermittent releases)		0,28 mg/l				
Morpholine 110-91-8	sediment (freshwater)				1,49 mg/kg		
Morpholine 110-91-8	sediment (marine water)				0,149 mg/kg		
Morpholine 110-91-8	Soil				0,239 mg/kg		
Morpholine 110-91-8	sewage treatment plant (STP)		10 mg/l				

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

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Morpholine 110-91-8	Workers	Inhalation	Long term exposure - local effects		36 mg/m3	
Morpholine 110-91-8	Workers	dermal	Long term exposure - systemic effects		1,04 mg/kg	
Morpholine 110-91-8	Workers	Inhalation	Long term exposure - systemic effects		91 mg/m3	
Morpholine 110-91-8	General population	oral	Long term exposure - systemic effects		6,3 mg/kg	
Morpholine 110-91-8	General population	Inhalation	Long term exposure - local effects		3,2 mg/m3	
Morpholine 110-91-8	General population	dermal	Long term exposure - systemic effects		0,52 mg/kg	
Morpholine 110-91-8	General population	Inhalation	Long term exposure - systemic effects		45 mg/m3	
Morpholine 110-91-8	General population	Inhalation	Acute/short term exposure - local effects		18 mg/m3	

**Biological Exposure Indices:**

None

**8.2. Exposure controls:**

Engineering controls:

Use only in well ventilated areas.

**Respiratory protection:**

In case of aerosol formation, we recommend wearing of appropriate respiratory protection equipment with ABEK P2 filter (EN 14387).

This recommendation should be matched to local conditions.

**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;  $\geq 0.4$  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;  $\geq 0.4$  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:**

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

**Skin protection:**

Wear protective equipment.

Protective clothing that covers arms and legs.

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

**Advices to personal protection equipment:**

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

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

Physical state	liquid
Delivery form	liquid
Colour	light blue
Odor	of hydrocarbons
Melting point	Not applicable, Product is a liquid
Solidification temperature	4 °C (39.2 °F)
Initial boiling point (1.013 hPa)	132 °C (269.6 °F)no method
Flammability	Flammable liquid
Explosive limits lower	0,46 %(V); Upper explosion limit not applicable for safe processing practices.
Flash point	24 °C (75.2 °F); no method
Auto-ignition temperature	> 200 °C (> 392 °F)
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic) (40 °C (104 °F); )	2.300 mm <sup>2</sup> /s ;no method
Viscosity, dynamic (; 40 °C (104 °F); speed of rotation: 10 min-1)	2.200 mPa.s viscosity, Brookfield

Flow cup viscosity (20 °C (68 °F); Type of cup: DIN-Cup; Nozzle: 4 mm no method)	40 s no method
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Not miscible
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure (20 °C (68 °F))	Mixture 960 Pa
Vapour pressure (50 °C (122 °F))	4900 Pa
Density (20 °C (68 °F))	0,95 g/cm <sup>3</sup> no method
Relative vapour density: (20 °C)	1,02
Particle characteristics	Not applicable Product is a liquid

## 9.2. Other information

Other information not applicable for this product

## 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

Heat, flames, sparks and other sources of ignition.

### 10.5. Incompatible materials

See section reactivity.

### 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

## SECTION 11: Toxicological information

### 1.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%) 1174921-73-3	LD50	> 15.000 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Morpholine 110-91-8	LD50	1.900 mg/kg	rat	BASF Test

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2- 25%) 1174921-73-3	LD50	> 3.700 mg/kg	rat	not specified
Morpholine 110-91-8	LD50	500 mg/kg	rabbit	Draize Test

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Morpholine 110-91-8	LC50	< 6,9 mg/l	vapour	4 h	rat	not specified
Morpholine 110-91-8	Acute toxicity estimate (ATE)	3 mg/l	vapour	4 h		Expert judgement

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Kieselguhr 61790-53-2	not irritating			OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Morpholine 110-91-8	corrosive	3 min	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Kieselguhr 61790-53-2	moderately irritating		Chicken, egg, in vitro assay	Hen's Egg Test – Chorioallantoic Membrane (HET-CAM)
Morpholine 110-91-8	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Morpholine 110-91-8	not sensitising	Buehler test	guinea pig	Buehler test

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Morpholine 110-91-8	ambiguous	bacterial reverse mutation assay (e.g Ames test)	with and without		Reverse Mutation Test
Morpholine 110-91-8	negative with metabolic activation	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Morpholine 110-91-8	negative	sister chromatid exchange assay in mammalian cells	with and without		Sister Chromatid Exchange Assay
Morpholine 110-91-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		DNA damage and repair assay, UDS in mammalian cells
Morpholine 110-91-8	negative	oral: gavage		hamster, Syrian	Chromosome Aberration Test

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Morpholine 110-91-8	not carcinogenic	inhalation	52 - 104 w 6 h/d, 5 d/w	rat	male/female	OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
Morpholine 110-91-8	NOAEL P 60 mg/kg NOAEL F1 60 mg/kg	one-generation study	oral: gavage	rat	OECD Guideline 443 (Extended One-Generation Reproductive Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Morpholine 110-91-8	LOAEL 500 mg/kg	oral: feed	56 d daily	rat	not specified

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

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

Do not empty into drains, soil or bodies of water.

**12.1. Toxicity****Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3	LL50	> 10 - 30 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
Kieselguhr 61790-53-2	LC50	> 10.000 mg/l	96 h	Brachydanio rerio (new name: Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity Test)
Morpholine 110-91-8	LC50	> 100 mg/l	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)

**Toxicity (Daphnia):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3	EL50	> 10 - 22 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Kieselguhr 61790-53-2	EC50	> 10.000 mg/l	24 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Morpholine 110-91-8	EC50	44,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

**Chronic toxicity to aquatic invertebrates**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3	NOEC	0,097 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Morpholine 110-91-8	NOEC	5 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3	EL50	4,1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3	NOEC	0,16 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Morpholine 110-91-8	EC50	64,63 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Morpholine 110-91-8	EC10	31,49 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

### Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Kieselguhr 61790-53-2	EC0	10.000 mg/l	30 min		not specified
Morpholine 110-91-8	EC20	> 1.000 mg/l	30 min	activated sludge, domestic	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

### 12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 1174921-73-3	readily biodegradable	aerobic	74,7 %	28 day	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
Morpholine 110-91-8	inherently biodegradable	aerobic	98 %	31 d	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test)
Morpholine 110-91-8	readily biodegradable	aerobic	93 %	25 d	OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test)

### 12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Morpholine 110-91-8	> 0,3 - 2,8	42 d		Cyprinus carpio	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)

### 12.4. Mobility in soil

Hazardous substances CAS-No.	LogPow	Temperature	Method
Morpholine 110-91-8	-2,55	25 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

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

Hazardous substances CAS-No.	PBT / vPvB
Morpholine 110-91-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

08 04 09\* waste adhesives and sealants containing organic solvents and other dangerous substances

Waste code

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.

## SECTION 14: Transport information

### 14.1. UN number or ID number

ADR	1993
RID	1993
ADN	1993
IMDG	1993
IATA	1993

### 14.2. UN proper shipping name

ADR	FLAMMABLE LIQUID, N.O.S. (White spirit)
RID	FLAMMABLE LIQUID, N.O.S. (White spirit)
ADN	FLAMMABLE LIQUID, N.O.S. (White spirit)
IMDG	FLAMMABLE LIQUID, N.O.S. (White spirit)
IATA	Flammable liquid, n.o.s. (White spirit)

### 14.3. Transport hazard class(es)

ADR	3
RID	3
ADN	3
IMDG	3
IATA	3

### 14.4. Packing group

ADR	III
RID	III
ADN	III
IMDG	III
IATA	III

### 14.5. Environmental hazards

ADR	Environmentally Hazardous
RID	Environmentally Hazardous
ADN	Environmentally Hazardous
IMDG	Marine pollutant
IATA	not applicable

### 14.6. Special precautions for user

ADR	not applicable Tunnelcode: (D/E)
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	38 %

**VOC Paints and Varnishes (EU):**

Product (sub)category:

This product is not a subject of the Directive 2004/42/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:

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H331 Toxic if inhaled.

H336 May cause drowsiness or dizziness.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

**Further information:**

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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.

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**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.**