

**Threadlocking Varnish****! SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Name of product Threadlocking Varnish
Code-Nr. 300200

1.2. Relevant identified uses of the substance or mixture and uses advised against**Recommended intended purpose(s)**

1-Component Adhesives and Sealants

1.3. Details of the supplier of the safety data sheet**Distributor**

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice

Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer

WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Flam. Liq. 2	H225	
Skin Irrit. 2	H315	
Eye Dam. 1	H318	
STOT SE 3	H336	
STOT RE 2	H373	

Hazard Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.

H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02



GHS05



GHS07



GHS08

Signal word

Danger

Hazard Statements

H225 Highly flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H336 May cause drowsiness or dizziness.
 H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe vapours/spray.
 P264 Wash hands thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/eye protection.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 Get medical advice/attention if you feel unwell.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P362 Take off contaminated clothing.
 P370 + P378 In case of fire: Use water for extinction.
 P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container to hazardous or special waste collection point.

Hazardous ingredients for labeling

butanone, cyclohexanone, xylene

Supplemental Hazard information (EU)

Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

**Threadlocking Varnish****Information pertaining to special dangers for human and environment**

In use, may form flammable/explosive vapour-air mixture.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**Description**

Compound

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
78-93-3	201-159-0	butanone	> 25	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
1330-20-7	215-535-7	xylene	12.5-19.99	Flam. Liq. 3, H226 / STOT RE 2, H373 / Asp. Tox. 1, H304 / Acute Tox. 4, H312, H332 / Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / STOT SE 3, H335
108-94-1		cyclohexanone	5-9.99	Flam. Liq. 3, H226 / Acute Tox. 4, H302, H312 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Acute Tox. 4, H332

REACH

CAS No	Name	REACH registration number
78-93-3	butanone	01-2119457290-43
1330-20-7	xylene	01-2119488216-32
108-94-1	cyclohexanone	01-2119453616-35

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated soaked clothing immediately.

Take away from danger area and lay down affected person.

In case of inhalation

Ensure of fresh air.

In case of inhalation remove the casualty into fresh air and seek medical advice.

In case of skin contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

After eye contact, rinse opened eye for 15 minutes under running water. Transfer to hospital for specialist examination.

In case of ingestion

Do not induce vomiting.

Call for a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed**Physician's information / possible symptoms**

vomiting
Respiratory complaints
Confusion

4.3. Indication of any immediate medical attention and special treatment needed**Treatment (Advice to doctor)**

If swallowed or in the event of vomiting, risk of entering the lungs.
Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam
Dry fire-extinguishing substance
Carbon dioxide
Dry sand
Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

May lead to formation of explosive/easily ignitable vapour air mixtures.
In case of fire formation of dangerous gases possible.
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Wear full protective clothing.
Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.
Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
Collect contaminated firefighting water separately, must not be discharged into the drains.

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

Ensure adequate ventilation.
Keep people away and stay on the upwind side.
Use personal protective clothing.
Keep away sources of ignition.
Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Inform pollution control authorities if product gets into the sewerage systems or open waters.
Do not discharge into surface waters/groundwater.
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

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

Keep container tightly closed.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Provide good room ventilation even at ground level (vapours are heavier than air).

Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

Ensure sufficient ventilation.

Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Work in rooms with good ventilation.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Protect from heat and sunlight.

The heavy vapours may bridge a long distance to source of ignition.

Vapours can form an explosive mixture with air.

The vapours of product are heavier than air.

Take precautionary measures against static discharges.

Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in original container.

Advice on storage compatibility

Do not store with acids or alkalis.

Do not store together with animal feedstuffs.

Do not store together with food.

Do not store together with oxidizing agents.

Further information on storage conditions

Protect from sparks and flames.

Store at +5 till +25 °C.

Keep container tightly closed and store at cool and aired place.

Protect from frost.

Protect from heat and direct solar radiation.

Store in a dry place.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

**Threadlocking Varnish****SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Ingredients with occupational exposure limits to be monitored**

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
78-93-3	Butan -2-one (methyl ethyl ketone)	8 hours	600	200	EH40/2005
		Short-term	899	300	
108-94-1	Cyclohexanone	8 hours		10	EH40/2005
		Short-term		20	
1330-20-7	Xylene, o-, m-, p- or mixed isomers	8 hours	220	50	EH40/2005
		Short-term	441	100	

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
78-93-3	butanone	8 hours	600	200	
		Short-term	900	300	

DNEL-/PNEC-values**DNEL worker**

CAS No	Substance name	Value	Code	Remark
1330-20-7	xylene	289 mg/m3	DNEL acute inhalative (systemic)	
		77 mg/m3	DNEL long-term inhalative (systemic)	
		289 mg/m3	DNEL acute inhalative (local)	
		180 mg/kg	DNEL long-term dermal (systemic)	
		289 mg/m3	DNEL acute inhalative (local)	
78-93-3	butanone	1161 mg/kg	DNEL long-term dermal (systemic)	
		600 mg/m3	DNEL long-term inhalative (systemic)	

PNEC

CAS No	Substance name	Value	Code	Remark
1330-20-7	xylene	12,46 mg/kg	PNEC sediment, marine water	
		12,46 mg/kg	PNEC sediment, freshwater	
		0,327 mg/l	PNEC aquatic, freshwater	
		2,31 mg/kg	PNEC sediment, freshwater	
		0,327 mg/l	PNEC aquatic, marine water	

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls**Respiratory protection**

In case of insufficient ventilation or long-term effect use breathing apparatus.

Breathing apparatus in the event of aerosol or mist formation.

Short-term: filter apparatus, filter A2/P2, otherwise environment-independent breathing apparatus.

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

**Threadlocking Varnish**

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile rubber; 0,4mm; 480min;60min.

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

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

viscous

Colour

various, depending on coloration

Odour

aromatic

Odour threshold

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not determined				
boiling point	not determined				
melting point	not determined				
Flash point	ca. -5 °C			DIN 53213	
Vapourisation rate	not applicable				
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	ca. 250 °C				
Self ignition temperature	not determined				
Lower explosion limit	1,8 Vol-%				CAS: 78-93-3
Upper explosion limit	11,5 Vol-%				CAS: 78-93-3
Vapour pressure	< 110 hPa	50 °C			CAS: 78-93-3
Relative density	ca. 1 g/cm ³	20 °C		DIN 53217	
Vapour density	not determined				
Solubility in water					partially soluble
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				

**Threadlocking Varnish**

	Value	Temperature	at	Method	Remark
Decomposition temperature	not determined				
Viscosity Outflow time	ca. 70 - 90 s	20 °C		4 DIN 53211	
Solvent separation test	< 1 %				
Solvent content	ca. 54 %			Calculated out of the components.	

Oxidising properties

No information available.

Explosive properties

not determined

9.2. Other information

No information available.

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

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Reactions with strong acids and alkalies.

Reactions with oxidising agents.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials**Substances to avoid**

Alkali (lye)

Acid

Oxidising agent

10.6. Hazardous decomposition products

Gases/vapours, irritant

Carbon monoxide and carbon dioxide.

Nitrous oxides (NOx)

Thermal decomposition

Remark No decomposition if used as directed.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg			ATE
LD50 acute dermal	> 3000 mg/kg			ATE
LC50 acute inhalation	> 30 mg/l ()			ATE
Skin irritation	irritant			
Eye irritation	corrosive			
Skin sensitization	non-sensitizing			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No experimental information on genotoxicity in vitro available.
Reproduction-Toxicity				No indications of toxic effects were observed in reproduction studies in animals.
Carcinogenicity				No indications of carcinogenic effects are available from long-term trials.

Specific target organ toxicity (single exposure)

May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure)

May cause damage to organs, if longer exposed.

Experiences made from practice

Often and long skin contact may cause degreasing and desiccation of the skin which may cause skin irritation.

Experiences at humans: may cause hypersensitivity reactions on skin in case of persons suffering from hypersensitivity.

Risk of strong eye injuries.

Inhalation causes headache/nausea.

Irritates eyes and skin.

Inhalation causes narcotic effect/intoxication.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product has not been tested. The information is derived from the properties of the individual components.

**Threadlocking Varnish****SECTION 12: Ecological information****12.1. Toxicity****Ecotoxicological effects**

	Value	Species	Method	Validation
Fish	LC50 86 mg/l (96 h)	Fish		CAS: 1330-20-7
Daphnia	EC50 165 mg/l (24 h)	Daphnia magna		CAS: 1330-20-7
Algae	EC50 1 - 10 mg/l (72 h)	Green algae		CAS: 1330-20-7
Bacteria	EC50 1 - 10 mg/l	activated sludge		CAS: 1330-20-7

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Degradability				readily degradable

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects**General regulation**

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste code No.**

08 01 11*

08 01 12

15 01 10*

Name of waste

waste paint and varnish containing organic solvents or other hazardous substances

waste paint and varnish other than those mentioned in 08 01 11

packaging containing residues of or contaminated by hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Remove in accordance with local official regulations.

Dispose of as hazardous waste.

Recommendations for packaging

Dispose of according to the local waste regulations.

Packaging that cannot be cleaned should be disposed of like the product.

General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

**Threadlocking Varnish****SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1263	1263	1263
14.2. UN proper shipping name	PAINT (Xylene, Butanone, Cyclohexanone)	PAINT (Xylene, Butanone, Cyclohexanone)	Paint (Xylene, Butanone, Cyclohexanone)
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	II	II	II
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not applicable**Land and inland navigation transport ADR/RID**Hazard label(s) 3
tunnel restriction code D/E
Special provisions 640D
Classification code F1**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC standard**VOC content ca.54 %
VOC value ca.540 g/L**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Recommended uses and restrictions**National and local regulations concerning chemicals shall be observed.
For industrial use only.**Further information**Each user is responsible for the implementation of the national special regulations.
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.
Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.3

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302, -?-
H302 May be fatal if swallowed and enters airways.
H312, -?-
H332 Causes skin irritation.



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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Threadlocking Varnish

- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).