

**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

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 |
|--------------------------------------|-------------------|--------------------------|
|--------------------------------------|-------------------|--------------------------|

| | | |
|--------------|------|--|
| 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

Information pertaining to special dangers for human and environment

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

**Threadlocking Varnish****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 |

REACH

| CAS No | Name | REACH registration number |
|-----------|---------------|---------------------------|
| 1330-20-7 | xylene | 01-2119488216-32-xxxx |
| 108-94-1 | cyclohexanone | 01-2119453616-xxxx |

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.

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 alkalies.

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

**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 | 77 mg/m3 | DNEL long-term inhalative (systemic) | |
| | | 289 mg/m3 | DNEL acute inhalative (systemic) | |
| | | 289 mg/m3 | DNEL acute inhalative (local) | |
| | | 180 mg/kg | DNEL long-term dermal (systemic) | |
| | | 289 mg/m3 | DNEL acute inhalative (local) | |

PNEC

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

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

**Threadlocking Varnish****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 | | | | |
| Decomposition temperature | not determined | | | | |



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

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Threadlocking Varnish

| | Value | Temperature | at | Method | Remark |
|--------------------------------|---------------------------|-------------|----|-----------------------------------|--------|
| 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

No information available.

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 (NO_x)

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 |



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Threadlocking Varnish

| | Value/Validation | Species | Method | Remark |
|------------------------------|--|---------|--------|--------|
| LD50 acute dermal | > 3000 mg/kg | | | ATE |
| LC50 acute inhalation | > 30 mg/l () | | | ATE |
| Skin irritation | irritant | | | |
| Eye irritation | irritant - risk of strong eye injuries | | | |
| Skin sensitization | non-sensitizing | | | |

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.

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.

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.

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. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| 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). |