



# SAFETY DATA SHEET

in accordance with 29 CFR 1910.1200 and ANSI standard Z400.1-2010

Revision date: Aug/5/2016

Version: 2

Language: en-US

Date of print: Aug/11/2016

## Threadlocking Varnish

Material number 300200

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### 1. Product and company identification

#### Product identifier

Trade name: Threadlocking Varnish

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

General use: One-component adhesive and sealing agent.  
Reserved for industrial and professional use.

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

Company name: WEICON Inc.  
Street/POB-No.: 20 Steckle Place, Unit 20  
Postal Code, city: Kitchener, Ontario N2E 2C3, CA  
WWW: www.weicon.ca  
E-mail: info@weicon.ca  
Telephone: +1-519-896-5252  
Telefax: +1-519-896-5254  
Dept. responsible for information:  
Product-Safety-Department  
Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

#### Emergency phone number

**EMERGENCY CONTACT – USA (24h): Tel: ++1 202 464 2554**

**Transport:**

**TRANSPORT EMERGENCY CONTACT - USA (24h): Tel: ++1 202 464 2554**

### 2. Hazards identification

#### Emergency overview

Appearance: Physical state at 68 °F and 101.3 kPa: liquid

Form: viscous

Color: varying colors

Odor: aromatic

Classification: Flammable Liquid - Category 2; Skin Irritation - Category 2; Eye Damage - Category 1; Specific Target Organ Toxicity (Single Exposure) - Category 3; Specific Target Organ Toxicity (Repeated Exposure) - Category 2;

Hazard symbols:



Signal word:

**Danger**

Hazard statements:

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye damage.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.



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Precautionary statements: Keep out of reach of children.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep cool.  
Ground and bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use non-sparking tools.  
Take action to prevent static discharges.  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash hands and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF ON SKIN: Wash with plenty of water/soap.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Immediately call a POISON CENTER/doctor.  
Specific treatment (see ' First aid ' on this label).  
If skin irritation occurs: Get medical advice/attention.  
Take off immediately all contaminated clothing.  
In case of fire: Use water fog, foam, dry chemical powder, carbon dioxide or sand to extinguish.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point.

### Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

### Hazards not otherwise classified

Potentially explosive mixtures may form if adequate ventilation is not provided.  
Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Higher doses may have a narcotic effect.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
see section 11: Toxicological information



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### 3. Composition / Information on ingredients

Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 78-93-3	Butanone	>= 25 %	Flammable Liquid - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3.
CAS 1330-20-7	Xylene (isomeric mixture)	< 20 %	Flammable Liquid - Category 3. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Irritation - Category 2A. Specific Target Organ Toxicity (Single Exposure) - Category 3. Specific Target Organ Toxicity (Repeated Exposure) - Category 2. Aspiration Toxicity - Category 1.
CAS 108-94-1	Cyclohexanone	< 10 %	Flammable Liquid - Category 3. Acute Toxicity - oral - Category 4. Acute Toxicity - dermal - Category 4. Acute Toxicity - inhalative - Category 4. Skin Irritation - Category 2. Eye Damage - Category 1.

### 4. First aid measures

General information:	First aider: Pay attention to self-protection! Take off immediately all contaminated clothing.
In case of inhalation:	Move victim to fresh air; if necessary, provide artificial respiration or oxygen. Immediately get medical attention.
Following skin contact:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists.
After eye contact:	Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently seek the immediate attention of an ophthalmologist.
After swallowing:	Do not induce vomiting. Rinse mouth with water. Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs. Drink large quantities of water. Never give anything by mouth to an unconscious person. Immediately get medical attention.

#### Most important symptoms/effects, acute and delayed

Causes skin irritation. Causes serious eye damage.  
May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Vomiting, respiratory complaints. Headache, nausea.

#### Information to physician

Treat symptomatically. Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.



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### 5. Fire fighting measures

Flash point/flash point range:

approx. 23 °F (c.c.)

Auto-ignition temperature: not determined

Suitable extinguishing media:

Water fog, foam, dry chemical powder, sand, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

High power water jet

#### Specific hazards arising from the chemical

Highly flammable liquid and vapor. Vapors form explosive mixtures with air. Risk of bursting/explosion.

Hazardous vapors may form during fires. In case of fire may be liberated: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool exposed containers with water spray. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains. In case of fire and/or explosion do not breathe fumes.

### 6. Accidental release measures

Personal precautions:

Provide adequate ventilation. In case of leakage, eliminate all ignition sources. Avoid contact with skin and eyes. Do not breathe vapor or spray.

Wear appropriate protective equipment. Take off immediately all contaminated clothing.

Keep unprotected people away.

Use a breathing protection against vapors/aerosol.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains. Do not allow to enter into soil/subsoil. In case of release, notify competent authorities.

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Use only explosion-proof equipment. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).

### 7. Handling and storage

#### Handling

Advices on safe handling:

Provide good ventilation and/or an exhaust system in the work area. Handle and open container with care. Do not breathe vapor or spray. Avoid contact with skin and eyes. Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Wear appropriate protective equipment. Take off immediately all contaminated clothing.

Wash hands before breaks and after work. When using do not eat, drink or smoke.

Precautions against fire and explosion:

Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.

Use only explosion-protected equipment/instruments. Do not weld.

In partially filled containers explosive mixtures may form.



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### Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.  
Keep container dry. Keep only in the original container.  
Protect from heat and direct sunlight. Recommended storage temperature: 5-25 °C  
Store containers in upright position. Explosion protection required.  
Handle empty containers with care. Incineration may cause explosion.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.  
Do not store together with acids/alkalies and oxidation agents.  
Keep away from food, drink and animal feedingstuffs.

## 8. Exposure controls / personal protection

### Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
78-93-3	Butanone	USA: ACGIH: STEL	885 mg/m <sup>3</sup> ; 300 ppm
		USA: ACGIH: TWA	590 mg/m <sup>3</sup> ; 200 ppm
		USA: NIOSH: STEL	885 mg/m <sup>3</sup> ; 300 ppm
		USA: NIOSH: TWA	590 mg/m <sup>3</sup> ; 200 ppm
		USA: OSHA: TWA	590 mg/m <sup>3</sup> ; 200 ppm
1330-20-7	Xylene (isomeric mixture)	USA: OSHA: TWA	435 mg/m <sup>3</sup> ; 100 ppm
108-94-1	Cyclohexanone	USA: ACGIH: TWA	50 mg/m <sup>3</sup> ; 20 ppm (May be absorbed through the skin.)
		USA: NIOSH: TWA	100 mg/m <sup>3</sup> ; 25 ppm (May be absorbed through the skin.)
		USA: OSHA: TWA	200 mg/m <sup>3</sup> ; 50 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
78-93-3	Butanone	USA: ACGIH-BEI, urine	2 mg/L	MEK	end of exposure or end of shift
1330-20-7	Xylene (isomeric mixture)	USA: ACGIH-BEI, urine	1.5 g/g creatinine	Methylhippuric acids	end of exposure or end of shift
108-94-1	Cyclohexanone	USA: ACGIH-BEI, urine	8 mg/L	Cyclohexanol	end of exposure or end of shift
		USA: ACGIH-BEI, urine	80 mg/L	1,2-Cyclohexanediol	end of shift at end of workweek

### Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.  
See also information in chapter 7, section storage.

### Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.

Skin protection: Flame retardant, antistatic and chemical resistant protective clothing.



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Protective gloves according to OSHA Standard - 29 CFR: 1910.138.

Glove material: Nitrile rubber

Layer thickness: 0.4 mm

Breakthrough time: > 480 min

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Respiratory protection: Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

General hygiene considerations:

Use non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Do not breathe vapor or spray. Avoid contact with skin and eyes.

Work place should be equipped with a shower and an eye rinsing apparatus.

Take off immediately all contaminated clothing.

When using do not eat, drink or smoke. Wash hands before breaks and after work.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Appearance:	Physical state at 68 °F and 101.3 kPa: liquid Form: viscous Color: varying colors
Odor:	aromatic
Odor threshold:	not determined
pH value:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point/flash point range:	approx. 23 °F (c.c.)
Evaporation rate:	not determined
Flammability:	Highly flammable liquid and vapor.
Explosion limits:	LEL (Lower Explosion Limit): 1.80 Vol-% (Butanone) UEL (Upper Explosive Limit): 11.50 Vol-% (Butanone)
Vapor pressure:	at 122 °F: approx. <= 110 hPa (Butanone)
Vapor density:	not determined
Density:	at 68 °F: approx. 1 g/mL
Solubility:	not determined
Water solubility:	partially soluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	not determined
Thermal decomposition:	No data available
Viscosity, kinematic:	at 68 °F: approx. 70-90 s, 4 mm (flow time)
Explosive properties:	Vapors may form explosive mixtures with air.
Ignition temperature:	approx. 482 °F
Solvent separation test:	at 73.4 °F: <= 1 %
Solvent content:	approx. 54 %



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### 10. Stability and reactivity

- Reactivity: Highly flammable liquid and vapor.  
Vapors may form explosive mixtures with air.
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions  
Do not expose to high temperature. Danger of bursting and explosion.
- Conditions to avoid: Keep away from heat sources, sparks and open flames.  
Keep away from combustible material. Protect from frost and exposure to sun.  
Protect from moisture contamination.
- Incompatible materials: Do not store together with acids/alkalies and oxidation agents.
- Hazardous decomposition products:  
Hazardous vapors may form during fires. In case of fire may be liberated: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.
- Thermal decomposition: No data available

### 11. Toxicological information

#### Toxicological tests

- Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.
- Acute toxicity (oral): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 5000 mg/kg.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 3000 mg/kg.
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
ATEmix (calculated): > 50 mg/L. (vapors)
- Skin corrosion/irritation: Skin Irritation - Category 2 = Causes skin irritation.
- Eye damage/irritation: Eye Damage - Category 1 = Causes serious eye damage.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Lack of data.  
May cause allergic symptoms to already sensitized persons.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) - Category 3 = May cause drowsiness or dizziness.
- Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) -  
Category 2 = May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard: Based on available data, the classification criteria are not met.



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Other information: Information about Butanone:  
LD50 Rat, oral: 2193 mg/kg  
LD50 Rabbit, dermal: >10 mg/kg  
LC50 Rat, inhalative, vapor: 34.5 mg/L  
Information about Xylene (isomeric mixture):  
LD50 Rat, oral: 3523 mg/kg  
LD50 Rabbit, dermal (m-xylene): 12126 mg/kg  
LC50 Rat, inhalative: 27571 mg/m<sup>2</sup>  
Information about Cyclohexanone:  
LD50, Rat, oral: 500 - 2000 mg/kg  
LC50, Rat, inhalative, vapor: 2 - 20 mg/m<sup>3</sup>/4h  
LD50, Rabbit, dermal: 400 - 2000 mg/kg  
For carcinogenic effects:  
Information about Xylene (isomeric mixture)  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
Information about Cyclohexanone:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed

### Symptoms

After contact with skin: May cause allergic symptoms to already sensitized persons.  
Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

## 12. Ecological information

### Ecotoxicity

Aquatic toxicity: Information about Xylene (isomeric mixture):  
Algae toxicity:  
EC50 *Desmodesmus subspicatus* (green algae): 1-10 mg/L/72h  
Daphnia toxicity:  
EC50 *Daphnia magna* (Big water flea): 165 mg/L/24h  
Fish toxicity:  
LC50: 86 mg/L/96h  
Bacterial toxicity:  
EC50 activated sludge: 1-10 mg/L

### Mobility in soil

No data available

### Persistence and degradability

Further details: No data available

### Additional ecological information

Volatile organic compounds (VOC):

approx. 54 % by weight = 540 g/L

General information:

Do not allow to enter into ground-water, surface water or drains. Do not allow uncontrolled discharge of product into the environment.





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### 13. Disposal considerations

#### Product

Recommendation: Dispose of waste according to applicable legislation.

#### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle contaminated packages in the same way as the substance itself. Handle empty containers with care. Incineration may cause explosion.

### 14. Transport information

#### USA: Department of Transportation (DOT)

Identification number: UN1263  
Proper shipping name: UN 1263, Paint  
Hazard class or Division: 3  
Packing Group: II  
Labels: 3  
Special provisions: 149, 367, B52, IB2, T4, TP1, TP8, TP28  
Packaging – Exceptions: 150  
Packaging – Non-bulk: 173  
Packaging – Bulk: 242  
Quantity limitations – Passenger aircraft / rail: 5 L  
Quantity limitations – Cargo only: 60 L  
Vessel stowage – Location: B



#### Sea transport (IMDG)

UN number: UN 1263  
Proper shipping name: UN 1263, Paint  
Class or division, Subsidiary risk: Class 3, Subrisk-II  
Packing Group: II  
EmS: F-E, S-E  
Special provisions: 163, 367  
Limited quantities: 5 L  
Excepted quantities: E2  
Contaminated packaging - Instructions: P001  
Contaminated packaging - Provisions: PP1  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1, TP8, TP28  
Stowage and handling: Category B.  
Properties and observations: Miscibility with water depends upon the composition.  
Marine pollutant: no  
Segregation group: none



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### Air transport (IATA)

UN/ID number: UN 1263  
Proper shipping name: UN 1263, Paint  
Class or division, Subsidiary risk: Class 3  
Packing Group: II  
Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special provisions: A3 A72 A192  
Emergency Response Guide-Code (ERG): 3L

## 15. Regulatory information

### National regulations - U.S. Federal Regulations

**Butanone:**  
TSCA Inventory: listed  
TSCA HPVC: not listed  
Other Environmental Laws:  
CERCLA: RQ 5000 lbs.  
RCRA Hazardous Wastes: Code U159  
RCRA Groundwater Monitoring: Methods 8015, 8240 / PQL 10, 100  
NIOSH Recommendations:  
Occupational Health Guideline: 0069\*

**Xylene (isomeric mixture):**  
TSCA Inventory: listed  
TSCA HPVC: not listed  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
Clean Air Act:  
Hazardous Air Pollutants: Code XOY  
SOCMI Chemical: yes  
Clean Water Act:  
Hazardous Substances: RQ 100 lbs.  
Other Environmental Laws:  
CERCLA: RQ 100 lbs.  
RCRA Hazardous Wastes: Code U239  
RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 5, 5  
SARA Title III Section 313, Toxic Release: Conc. 1.0% / Threshold Standard

**Cyclohexanone:**  
TSCA: listed  
Carcinogen Status:  
IARC Rating: Group 3  
OSHA Carcinogen: not listed  
NTP Rating: not listed  
Clean Air Act:  
SOCMI Chemical: yes  
Other Environmental Laws:  
CERCLA: RQ 5000 lbs.  
RCRA Hazardous Wastes: Code U057  
NIOSH Recommendations:  
Occupational Health Guideline: 0166



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### National regulations - U.S. State Regulations

Butanone:	Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585/Title 586: - Massachusetts Haz. Substance codes: 2,4,5,6 F8 F9 Minnesota Haz. Substance: Codes: ANO - Ratings: 9.7 - Status: Air Pollutant Title III. TRI. New Jersey RTK Hazardous Substance: DOT: 1193 - Sub No.: 1258 - TPQ: - New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 200 ppm - 590 mg - STEL: 300 ppm - 885 mg
Xylene (isomeric mixture):	Delaware Air Quality Management List: DRQ: 100 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585 -- Title 586 -- Maine Hazardous Air Pollutants: Me 2005: HAP - Hap Rpt: 2000 Massachusetts Haz. Substance codes: 2,4 F8 F9 Michigan Critical Material: Note: - CMR: 44 - Parameter: 01330-20-7 - Annual Usage Parameter: 100 Minnesota Haz. Substance: Codes: ANO - Ratings: 8.77 - Status: Air Pollutant. Title III. TRI. New Jersey RTK Hazardous Substance: DOT: 1307 - Sub No.: 2014 - TPQ: - New York List of Hazardous Substances: RQ -- Air: 1000 - RQ -- Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 100 ppm / 435 mg - STEL: 150 ppm / 655 mg
Cyclohexanone:	California Proposition 65 code: - Delaware Air Quality Management List: DRQ: 5000 - RQ State: Federal Regulations Apply Idaho Air Pollutant List: Title 585: AAC: 5 - EL: 6.67 - OEL: 100 - Title 586: - Massachusetts Haz. Substance codes: 2,4,6 F8 Minnesota Haz. Substance: Codes: ANO - Ratings: 5.02 - Status: Title III. New York List of Hazardous Substances: RQ-Air: 5000 - RQ-Land: 1 - Note: No Note Associated with this chemical. Pennsylvania Haz. Substance code: E Washington Air Contaminant: TWA: 25 ppm - 100 mg

### National regulations - Great Britain

Hazchem-Code: •3YE

## 16. Other information

Text for labeling: Contains >= 25 % Butanone, < 20 % Xylene (isomeric mixture), < 10 % Cyclohexanone. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 3 (Serious)

Fire: 3 (Serious)

Reactivity: 1 (Slight)

HMIS Version III Rating:

Health: 3 (Serious) - Chronic effects

Flammability: 3 (Serious)

Physical Hazard: 1 (Slight)

Personal Protection: X = Consult your supervisor

HEALTH	*	3
FLAMMABILITY		3
PHYSICAL HAZARD		1
		X

Reason of change:

Changes in section 1: General revision

Date of first version:

May/3/2016

### Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.