



Safety data sheet

According to 1907/2006/EC, Article 31

Printing date: 08.11.2021

Version number 4

Revision: 08.11.2021

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: TopSeal™ Knot varnish 400 ml Lacquer**Article number:** 999263, 999264, 999265, 999266

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

Relevant identified uses: coating of surfaces**Application sector:**

- SU3 Industrial uses; uses of substances as such or in preparations at industrial sites
- SU21 Consumer uses: private households/ generality/ consumer
- SU22 Commercial use: public area (administration, culture, entertainment, service, trade)

1.3 Details of the safety data sheet

Manufacturer/Supplier:

MEISER Vogtland GmbH & Co. KG
Am Lehmteich 3
D-08606 Oelsnitz
Tel.: +49 37421 50 0
info@meiser.de

Further information obtainable from: Department GRP

1.4 Emergency telephone number:

Tel.: +49 37421 50 2241
Fax +49 37421 50 2240
(Mo - Th 08:00 am - 04:00 pm, Fr 08:00 am - 00:30 pm)

2. Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:

GHS 02 flame

Flam. Aerosol 1 H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.



GHS 07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.



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Hazard pictograms:

GHS 02



GHS 07

Signal word: Danger**Hazard-determining components of labelling:**

acetone

n-butyl acetate

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

P262 Do not get in eyes, on skin, or on clothing.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Possible. Remove contact lenses, if possible. Continue rinsing.

P403 Keep in a well-ventilated place.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents / container in accordance with regional regulations. Do not empty into drains. Contains acetone, n-butyl acetate.

Additional information:

EUH066 Repeated contact can lead to rough or cracked skin.

EUH018 Can form explosive / flammable vapor / air mixtures when used.

EUH211 Caution! When spraying, dangerous respirable droplets can be produced develop. Do not breathe aerosol or fog.

2.3 Other hazards:**Results of PBT- and vPvB-assessment:****PBT:** Not applicable.**vPvB:** Not applicable.



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3. Composition/information on ingredients

3.1 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

<p>CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-xxxx</p>	<p><u>acetone</u></p> <p> Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336</p>	<p>15-30%</p>
<p>CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21-xxxx</p>	<p><u>propane</u></p> <p> Flam. Gas 1, H220; Press. Gas C, H280</p>	<p>5-15%</p>
<p>CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32-xxxx</p>	<p><u>butane</u></p> <p> Flam. Gas 1, H220; Press. Gas C, H280</p>	<p>15-30%</p>
<p>CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29</p>	<p><u>n-butyl acetate</u></p> <p> Flam. Liq. 3, H226; STOT SE 3, H336</p>	<p>15-30%</p>
<p>CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46-xxxx</p>	<p><u>ethyl acetate</u></p> <p> Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336</p>	<p>1-5%</p>

Additional information:

For the wording of the listed risk phrases refer to section 16.

4. First aid measures

4.1 Description of first aid measures

General information: Take affected persons out into the fresh air.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: In the event of contact with skin, wash off immediately with water and Soap. Consult a doctor if skin irritation persists.

After eye contact: Rinse opened eye for several minutes under running water. Consult a doctor.

After swallowing: Do not induce vomiting. Call a doctor immediately.



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4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. Firefighting measures**5.1 Extinguishing media****Suitable extinguishing agents:**CO₂, dry powder or foam. The Pressurized gas packs are cooled in the event of a fire.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

5.3 Advice for firefighters - Protective equipment: Put on breathing apparatus, explosion and Do not inhale fire gases.**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Provide good ventilation. Removal of ignition sources, protective clothing wear. Keep unprotected people away.

6.2 Environmental precautions:

Do not discharge into drains or rivers. When entering water or the sewerage system notify the competent authority.

6.3 Methods and material for containment and cleaning up:Do not flush with water or aqueous cleansing agents
Ensure adequate ventilation.**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

Protect from heat and direct sunlight. For good ventilation / extraction at work. Note emission limits.

Information about fire - and explosion protection:

Keep away from ignition sources. Do not smoke. Container is under pressure. Even after do not open or burn use force. From exposure to sunlight and Protect temperatures above 50 ° C. Not against flames or glowing ones Spray objects. Do not crack open or set fire to after using. Take measures against electrostatic charges.



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7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Provide good ventilation. Store in a cool place. The official regulations for the storage of pressurized gas packs are to be observed.

TRGS 510

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Storage class: 2B

7.3 Specific end uses

No further relevant information available.

8. Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

<p><u>67-64-1 acetone</u></p> <p>WEL: 1200 mg/m³, 500 ml/m³</p>
<p><u>74-89-6 propane</u></p> <p>WEL: 1800 mg/m³, 1000 ml/m³</p>
<p><u>106-97-8 butane</u></p> <p>WEL: 2400 mg/m³, 1000 ml/m³</p>
<p><u>123-86-4 n-butyl acetate</u></p> <p>WEL: 300 mg/m³, 62 ml/m³</p>
<p><u>141-78-6 ethyl acetate</u></p> <p>WEL: 734 mg/m³, 200 ml/m³</p>

Additional information: The list valid at the time of creation served as the basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing



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Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
 Do not inhale vapors.

Respiratory protection:

Not necessary if room is well-ventilated.
 Otherwise, filter class A / P2 or self contained.

Protection of hands:



Protective gloves

Solvent resistant gloves

Nitrile rubber or butyl rubber gloves. Please note the information of the glove manufacturer on permeabilities and breakthrough times and the special conditions in the workplace.

Material of gloves

The selection of a suitable glove is not only based on the material, but also depends on further quality features and from manufacturer to manufacturer different. Since the product is a preparation of several substances the resistance of glove materials cannot and must not be calculated in advance therefore be checked before use.

Nitrile rubber or butyl rubber

Penetration time of glove material

Value for the permeation: Level > = 6 Consult the manufacturer. Example 0.4mm Butyl rubber are resistant to acetone 480 min, butyl acetate 60 min, Ethyl acetate 170 min.

Eye protection:



Safety glasses

Body protection: Protective work clothing, light protective clothing

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:

Aerosol

Colour:

According to product specification

Odour:

Characteristic

Odour threshold:

Not determined.

pH-value:

Not determined.



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Change in condition**Melting point/Melting range:**

Not determined.

Boiling point/Boiling range:

Not applicable, as aerosol (only varnish 60-100°C).

Flash point:

Not applicable, as aerosol (only Varnish < -5°C Methode: DIN 51755).

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

490 °C

Decomposition temperature:

Not determined.

Self-igniting:

Product is not selfigniting.

Danger of explosion:

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

Explosion limits:**Lower:**

1,5 Vol %

Upper:

13,0 Vol %

Vapour pressure at 20 °C:

3-4 bar

Vapour pressure at 0 °C:

10,4 bar

Density at 20 °C:

0,95 g/ml only varnish

Relative density:

Not determined.

Vapour density:

Not determined.

Evaporation rate:

Not applicable.

Solubility in / Miscibility with water:

Not miscible or difficult to mix.

Viscosity:**Dynamic:**

Not determined.

Kinematic:

Not determined.

Solvent content:**VOC-EU:**colour 62,5%; 260g/canister;
650 g/l**VOC-EU%:**clear varnish 68,75%;
275g/canister; 687,5 g/l**9.2 Other information:** No further relevant information available.**10. Stability and reactivity****10.1 Reactivity****10.2 Chemical Stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**10.3 Possibility of hazardous reactions** No dangerous reactions known.**10.4 Conditions to avoid** No further relevant information available.



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10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (Based on the available data, the classification criteria are not fulfilled)

LD/LC50 values relevant for classification:

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rabbit)
Inhalativ	LC50/4h	76 mg/l (rat)

123-86-4 n-butyl acetate

Oral	LD50	10760 mg/kg (rat)
Dermal	LD50	>14112 mg/kg (rabbit)
Inhalativ	LC50/4h	>21 mg/l (rat)

141-78-6 ethyl acetate

Oral	LD50	5620 mg/kg (rat)
Dermal	LD50	>20000 mg/kg (rabbit)

106-97-8 butane

Inhalativ	LC50/4h	658 mg/l (rat)
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74-98-6 propane

Inhalativ	LC50/4h	>20 mg/l (rat)
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Primary irritant effect

Skin corrosion/irritation: Based on the available data for the individual substances the classification criteria are not met.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitisation: Based on the available data for the individual substances the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxic effects for reproduction)

Germ cell mutagenicity: Based on the available data for the individual substances the classification criteria are not met.

Carcinogenicity: Based on the available data for the individual substances the classification criteria are not met.

Reproductive toxicity: Based on the available data for the individual substances the classification criteria are not met.

Specific target organ toxicity after single exposure: May cause drowsiness.

Specific target organ toxicity after repeated exposure: Based on the available data for the individual substances the classification criteria are not met.



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Aspiration hazard: Based on the available data for the individual substances the classification criteria are not met.

12. Ecological information

12.1 Toxicity

Aquatic toxicity:

123-86-4 n-Butylacetat	
EC50/24 h	73 mg/l (daphnia magna)
EC50/48 h	44 mg/l (daphnia magna)
EC50/72 h	647,7 mg/l (S)
LC50(96h)	18 mg/l (Pimephales promelas)
67-64-1 Aceton	
NOEC	430 mg/l (Algen)
LC50/96 h	11000 mg/l (Ukelei)
	5540 mg/l (Oncorhynchus mykiss)
LC50/48 h	8800 mg/l (daphnia magna)
NOEC/16h	1700 mg/l (Pseudomonas putida)
NOEC/48h	4740 mg/l (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulation potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage System.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13. Disposal considerations

13.1 Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



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European waste catalogue

08 01 11: waste paint and varnish containing organic solvents or other dangerous substances
 15 01 04: metallic packaging
 15 01 11: metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

Uncleaned packaging:

Recommendation: Disposal according to official regulations.

14. Transport information

14.1 UN-Number ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping name ADR IMDG IATA	UN1950 AEROSOLS AEROSOLS AEROSOLS, flammable	
14.3 Transport hazard class (es) ADR class Label	2 5F Gas 2.1	
IMDG, IATA Class Label	2.1 2.1	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
14.6 Special precautions for user Warning: Gases EMS-Number:	F-D, S-U	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR 2013 Limited quantities (LQ) Transport category Tunnel restriction code	1L 2 D	
UN "Model Regulation":	UN1950, AEROSOLS, 2.1	



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15. Regulatory information

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

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated contact can lead to rough or cracked skin.

EUH018 Can form explosive / flammable vapor / air mixtures when used.

Data sheet issuing area: Department GRP

Contact: Department GRP

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Expl. 1.1: Explosives, Division 1.1

Flam. Gas 1: Flammable gases, Hazard Category 1



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Flam. Aerosol 1: Flammable aerosols, Hazard Category 1

Press. Gas C: Gases under pressure: Compressed gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3