



Safety data sheet

According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

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:

Application of the substance / the mixture Lacquer

1.3 Details of the safety data sheet

Manufacturer/Supplier:

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

Further information obtainable from: Department GFK

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-H229 Extremely flammable aerosol. 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.

Hazard pictograms:



GHS 02



GHS 07

Signal word: Danger



Safety data sheet According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

Hazard-determining components of labelling:

acetone
n-butyl acetate

Hazard statements:

H222-H229 Extremely flammable aerosol. 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.
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.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.
Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other hazards:

Results of PBT- and vPvB-assessment:




PBT: Not applicable.

vPvB: Not applicable.

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</p>	<p><u>acetone</u></p> <p> Flam. Liq. 2, H225;</p> <p> Eye Irrit. 2, H319; STOT SE 3, H336</p>	<p>25-<50%</p>
<p>CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.nr.: 01-2119486944-21</p>	<p><u>propane</u></p> <p> Flam. Gas 1, H220; Press. Gas C, H280</p>	<p>12,5- <20%</p>









Safety data sheet According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0 Reg.nr.: 01-2119474691-32	<u>butane</u>  Flam. Gas 1, H220; Press. Gas C, H280	12,5- <20%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7 Reg.nr.: 01-2119475791-29	<u>2-methoxy-1-methylethyl acetate</u>  Flam. Liq. 3, H226	5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29	<u>n-butyl acetate</u>  Flam. Liq. 3, H226;  STOT SE 3, H336	5-<10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.nr.: 01-2119485395-27	<u>isobutane</u>  Flam. Gas 1, H220; Press. Gas C, H280	2,5- <5,0%
CAS: 9004-70-0 Index number: 603-037-00-6	<u>cellulose nitrate</u>  Expl. 1.1, H201	<2,5%

Additional information:

The content of Benzene (EINECS-Nr. 200-753-7) in the ingredients is less than 0,1 % (Note P Annex 1 67/548 EU), so the classification as carcinogen need not to apply. For the wording of the listed risk phrases refer to section 16.

4. First aid measures

4.1 Description of first aid measures

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

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

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.



Safety data sheet

According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, dry powder or water jet. To reduce a major fire with water jet or alcohol-resistant foam.

Cooling the container with water.

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: No special measures required.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Do not allow product to reach sewage system or any water course.

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

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

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



Safety data sheet
According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

7.3 Specific end use(s)

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:

<u>67-64-1 acetone</u>	
WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm
<u>106-97-8 butane</u>	
WEL	Short-term value: 1810 mg/m ³ , 750 ppm Long-term value: 1450 mg/m ³ , 600 ppm Carc (if more than 0,1 % of buta-1.3-diene)
<u>108-65-6 2-methoxy-1-methylethyl acetate</u>	
WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
<u>123-86-4 n-butyl acetate</u>	
WEL	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm

Additional information: The lists valid during the making were used as 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
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes and skin.

Respiratory protection:

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



Safety data sheet
According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

Protection of hands:



Protective gloves

Solvent resistant gloves

In case of contact with spray dust protective gloves made of butyl should be used (min. 0.4 mm thick), e.g. KCL Camatril, article no. 898 or similar products. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Natural rubber, NR

Butyl rubber, BR

Penetration time of glove material

Butyl rubber gloves with a thickness of 0.4 mm are resistant to: Acetone 480 min, Butyl acetate 60 min, Ethyl acetate 170 min, Xylene 42 min

Eye protection:



Safety glasses

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.

Change in condition

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not applicable, as aerosol.

Flash point:

Not applicable, as aerosol.

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

315 °C

Decomposition temperature:

Not determined.

Self-igniting:

Product is not selfigniting.



Safety data sheet

According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

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:	8300 hPa
Density at 20 °C:	0,79 g/cm ³
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
VOC-EU:	724,4 g/l
VOC-EU%:	91,86 %
Solids content:	7,1 %

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.

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

LD/LC50 values relevant for classification:

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)



Safety data sheet

According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

Primary irritant effect:**Skin corrosion/irritation:**

No irritant effect.

Serious eye damage/irritation:

Irritating effect.

Respiratory or skin sensitisation:

No sensitising effects known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version:

Irritant

Vapours have narcotic effect.

12. Ecological information**12.1 Toxicity**

Aquatic toxicity: No further relevant information available.

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.

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: Dispose of packaging according to regulations on the disposal of packagings.





Safety data sheet According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

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 Gase 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 EMS-Number:	Warning: Gases 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 Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
Transport category Tunnel restriction code	2 D
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
UN "Model Regulation":	UN1950, AEROSOLS, 2.1



Safety data sheet

According to 1907/2006/EC, Article 31

Printing date: 14.10.2019

Version number 3

Revision: 14.10.2019

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

H201 Explosive; mass explosion hazard.

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Contact: Anwendungstechnik

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

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