

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

1 Identification

Product identifier

Trade name: **008 Teak-Oil Spray**

Application of the substance / the mixture
Maintenance product
Paint

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Osmo Holz und Color GmbH & Co. KG
Affhüppen Esch 12
D-48231 Warendorf
Germany

Information department: Product safety department
Phone: +49 (0) 251 / 692 - 188
Fax: +49 (0) 251 / 692 - 462
e-mail: helmut.starp@osmo.de

2 Hazard identification

Classification of the substance or mixture

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

Press. Gas H280 Contains gas under pressure; may explode if heated.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02 GHS04

Signal word

Danger

Hazard statements

H222-H229 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

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

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

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

(Contd. on page 2)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 1)

Additional information: Observe the general safety regulations when handling chemicals.
Always wear a dust mask when sanding.

Hazard description:**WHMIS-symbols:**

A - Compressed gas
B5 - Flammable aerosol

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 3

HMIS-ratings (scale 0 - 4)

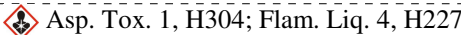
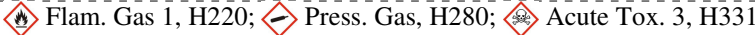
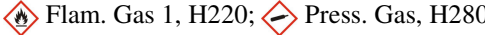
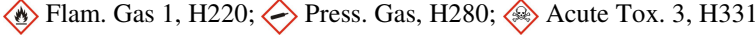
Health = 0
Fire = 0
Reactivity = 3

3 Composition/Information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

64742-48-9	aliphatic hydrocarbons, C10-C13 	30-60% *
106-97-8	butane 	10-30% *
74-98-6	propane 	1-5% *
75-28-5	isobutane 	0.5-1.5% *

4 First aid measures

Description of first aid measures**General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

If swallowed, seek medical advice immediately and show this container or label.

(Contd. on page 3)

Safety Data Sheet
according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 2)

Information for doctor:

Most important symptoms and effects, both acute and delayed

Headache
Dizziness

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents:

Water with full jet

Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.
Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Cool endangered receptacles with water spray.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources

Environmental precautions:

Do not allow to enter sewers/ surface or ground water.
Inform respective authorities in case of seepage into water course or sewage system.

Methods and material for containment and cleaning up:

Warm water and cleansing agent
Ensure adequate ventilation.

Reference to other sections

See Section 13 for disposal information.

7 Handling and storage

Handling:

Precautions for safe handling

Keep away from heat and direct sunlight.
Keep receptacles tightly sealed.

(Contd. on page 4)

Safety Data Sheet
 according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 3)

Information about protection against explosions and fires:

Use only in well ventilated areas.
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
 Do not spray on a naked flame or any incandescent material.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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 pressurized containers.

Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).
 Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Store only outside or in explosion proof rooms.
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
 Keep receptacle tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.

Storage class:

2 B

Specific end use(s)

No further relevant information available.

8 Exposure controls/ Personal protection**Additional information about design of technical systems:**

No further data; see item 7.

Control parameters**Components with limit values that require monitoring at the workplace:****106-97-8 butane**

EL	Short-term value: 750 ppm Long-term value: 600 ppm
EV	Long-term value: 800 ppm revoked as of 01/01/18

74-98-6 propane

EL	Long-term value: 1000 ppm
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(Contd. on page 5)

Safety Data Sheet
according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 4)

EV	Long-term value: 1,000 ppm revoked as of 01/01/18
75-28-5 isobutane	
EV	Long-term value: 800 ppm revoked as of 01/01/18

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

Do not inhale gases / fumes / aerosols.
Immediately remove all soiled and contaminated clothing.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Do not carry product impregnated cleaning cloths in trouser pockets.

Breathing equipment:

Not necessary if room is well-ventilated.
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Short term filter device:

Filter A/P2

Protection of hands:

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

Nitrile rubber, NBR

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.4 mm

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

As protection from splashes gloves made of the following materials are suitable:

Nitrile rubber, NBR

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

(Contd. on page 6)

Safety Data Sheet
 according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 5)

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Aerosol
Color:	Clear
Odor:	Characteristic

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Not applicable, as aerosol.

Flash point: Not applicable, as aerosol.**Ignition temperature:** 240 °C**Auto igniting:** Product is not selfigniting.**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.**Explosion limits:**

Lower:	0.6 Vol %
Upper:	8.5 Vol %

Vapor pressure at 20 °C: 2.1 hPa**Density:** Not determined.**Solubility in / Miscibility with****Water:** Not miscible or difficult to mix.**Viscosity:**

Dynamic:	Not determined.
Kinematic:	Not determined.

Other information No further relevant information available.**10 Stability and reactivity****Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition / conditions to be avoided:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Possibility of hazardous reactions Forms explosive gas mixture with air.
 Reacts with fabric soaked in the product (e.g. cleaning wool).

(Contd. on page 7)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 6)

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide
Nitrogen oxides (NO_x)

Additional information: CAUTION: Rags, steel wool or waste soaked with this product may spontaneously catch fire if improperly discarded. Immediately after use, place rags, steel wool or waste in a sealed water filled metal container to prevent this.
Must not be applied on the same spraying stand as lacquers or lacquer corrosives that contain NC (nitrocellulose). Risk of self-ignition.

11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

64742-48-9 aliphatic hydrocarbons, C10-C13

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 / 4h	21 mg/l (rat) (OECD 403)

106-97-8 butane

Inhalative	LC50 / 4h	658 mg/l (rat)
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Primary irritant effect:

on the skin: At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 8)

Safety Data Sheet
according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 7)

12 Ecological information**Toxicity****Aquatic toxicity:****64742-48-9 aliphatic hydrocarbons, C10-C13**

EC50 / 48h	>1,000 mg/l (daphnia) (OECD 202)
EC50/ 72h	>1,000 mg/l (algae) (OECD 201)
LC50 / 96h	>1,000 mg/l (fish) (OECD 203)
Biolog. Abbaubarkeit	% (leicht abbaubar)

Persistence and degradability No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Waste treatment methods****Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Solvent naphtha**14 Transport information****UN-Number****DOT, TDG, IMDG, IATA** UN1950**UN proper shipping name****DOT** Aerosols, flammable**TDG** 1950 Aerosols**IMDG** AEROSOLS**IATA** AEROSOLS, flammable

(Contd. on page 9)

Safety Data Sheet
according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 8)

Transport hazard class(es)	
DOT, IMDG, IATA	
Class	2.1
Label	2.1
TDG (Transport dangerous goods):	
Class	2 5F Gases
Label	2.1
Packing group	
DOT, TDG, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Gases
Danger code (Kemler):	-
EMS Number:	F-D,S-U
Stowage Code	SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
Segregation Code	SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	
	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 75 kg On cargo aircraft only: 150 kg
TDG	
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity

(Contd. on page 10)

Safety Data Sheet

according to HPR, Schedule 1

Printing date 06/18/2018

Reviewed on 06/18/2018

Trade name: 008 Teak-Oil Spray

(Contd. of page 9)

UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

15 Regulatory information

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

Sara

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

Canadian substance listings:
Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

106-97-8 | butane

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms


GHS02 GHS04

Signal word

Danger

Hazard statements

H222-H229 Extremely flammable aerosol.

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

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

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

(Contd. on page 11)

Safety Data Sheet
 according to HPR, Schedule 1

Printing date 06/18/2018

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Trade name: 008 Teak-Oil Spray

(Contd. of page 10)

P410+P403 Protect from sunlight. Store in a well-ventilated place.

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

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.
 H227 Combustible liquid.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 H331 Toxic if inhaled.

Department issuing SDS: product safety department**Contact:** Hr. Dr. Starp**Date of preparation / last revision** 06/18/2018 / 13

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 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)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 WHMIS: Workplace Hazardous Materials Information System (Canada)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative

*** Data compared to the previous version altered.**