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

Printing date 19.03.2015

Version number 13

Revision: 19.03.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: 008 Osmo Teak-Oil Spray, Clear

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

Application of the substance / the mixture No further relevant information available.

Maintenance product
 Paint

1.3 Details of the supplier of the safety data sheet

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

Further information obtainable from:

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

1.4 Emergency telephone number:

emergency phone no. Berlin (24h): +49 (0) 30 / 30686 790 advisory service in German and English

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture**Classification according to Regulation (EC) No 1272/2008**

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

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

F+; Extremely flammable

R12: Extremely flammable.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 Warning! Pressurised container.

Classification system:

The classification is according to the latest editions of the EU-lists and extended by company and literature data.

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

GHS02

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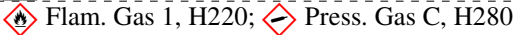


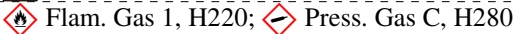


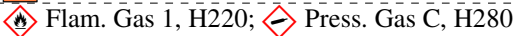

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Signal word	Danger
Hazard statements	H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P251 Pressurized container: Do not pierce or burn, even after use. P260 Do not breathe spray. P271 Use only outdoors or in a well-ventilated area. P211 Do not spray on an open flame or other ignition source. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Additional information:	Observe the general safety regulations when handling chemicals. Always wear a dust mask when sanding. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
2.3 Other hazards	
Results of PBT and vPvB assessment	
PBT:	Not applicable.
vPvB:	Not applicable.

SECTION 3: Composition/information on ingredients
3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 64742-48-9 EC number: 918-481-9 Index number: 649-327-00-6 Reg.nr.: 01-2119457273-39	aliphatic hydrocarbons, C10-C13  Xn R65  R66 -----  Asp. Tox. 1, H304	25-50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane  F+ R12  Flam. Gas 1, H220;  Press. Gas C, H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane  F+ R12  Flam. Gas 1, H220;  Press. Gas C, H280	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8	isobutane  F+ R12  Flam. Gas 1, H220;  Press. Gas C, H280	≤ 2.5%

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Additional information:

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

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SECTION 4: First aid measures

4.1 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.

4.2 Most important symptoms and effects, both acute and delayed

Headache

Disziness

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 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.

5.3 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

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6.2 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.

6.3 Methods and material for containment and cleaning up: Warm water and cleansing agent
 Ensure adequate ventilation.

6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Keep away from heat and direct sunlight.
 Keep receptacles tightly sealed.
 Use only in well ventilated areas.
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection: Do not spray onto a naked flame or any incandescent material.
 Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Pressurised 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.

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:

Do not store together with alkalis (caustic solutions).
 Do not store together with oxidising 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 container tightly sealed.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

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

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)
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74-98-6 propane

AGW	Long-term value: 1800 mg/m ³ , 1000 ppm 4(II);DFG
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75-28-5 isobutane

OEL	Short-term value: 3800 mg/m ³ , 750 ppm Long-term value: 1900 mg/m ³ , 600 ppm EH 40/97
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Additional information: The lists valid during the making were used as basis.

8.2 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.
 Not necessary if room is well-ventilated.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
 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 through 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

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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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Aerosol

Colour: Clear

Odour: 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

Self-igniting: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Explosion limits:

Lower: 0.6 Vol %

Upper: 8.5 Vol %

Vapour pressure at 20 °C: 2.1 hPa

Density: Not determined.

Solubility in / Miscibility with

water: Not miscible or difficult to mix.

9.2 Other information No further relevant information available.

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SECTION 10: Stability and reactivity

10.1 Reactivity**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

Pressurised 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.

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide
 Nitrogen oxides (NO_x)

Additional information:

Warning:
 Wash out any used cloth impregnated with this product immediately after use or store in an airtight container (danger of self-ignition)
 Must not be applied on the same spraying stand as lacquers or lacquer corrosives that contain NC (nitrocellulose). Risk of self-ignition.

SECTION 11: Toxicological information

11.1 Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:****64742-48-9 aliphatic hydrocarbons, C10-C13**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50 / 4h	>5 mg/l (rat)

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: not tested

Sensitisation: No sensitising effects known.

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

EC50 / 48h >1000 mg/l (daphnia)

IC50 / 72h >1000 mg/l (algae)

LC50 / 96h >1000 mg/l (fish)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative 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 product 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.
SECTION 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

16 05 05 gases in pressure containers other than those mentioned in 16 05 04

15 01 11 metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers

Uncleaned packaging:**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Solvent naphtha
SECTION 14: Transport information
14.1 UN-Number**ADR, IMDG, IATA**

UN1950

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14.2 UN proper shipping name	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
Class	2.1
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	
Danger code (Kemler):	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	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
Transport category	2
Tunnel restriction code	D
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

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

No further relevant information available.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.
 H280 Contains gas under pressure; may explode if heated.
 H304 May be fatal if swallowed and enters airways.
 R12 Extremely flammable.
 R65 Harmful: may cause lung damage if swallowed.
 R66 Repeated exposure may cause skin dryness or cracking.

Department issuing MSDS:

product safety department

Contact:

Hr. Dr. Starp

Abbreviations and acronyms:

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)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Flam. Gas 1: Flammable gases, Hazard Category 1
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
 Press. Gas C: Gases under pressure: Compressed gas
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

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