

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 04.09.2013

version no: 1

Revision: 04.09.2013

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

- 1.1 Product identifier**
- Trade name:** FILM CLEANER SPRAY
- Article number:** 105198
- 1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- Application of the substance / the preparation** Cleaning material
- 1.3 Details of the supplier of the safety data sheet**
- Manufacturer/Supplier:**
TETENAL Europe GmbH
Schützenwall 31-35
D-22844 Norderstedt / Germany
Phone: ++49 (0) 40 521 45-0; Fax: +49 (0) 40-52145-296
www.tetenal.com; E-Mail: info@tetenal.com
- TETENAL Ltd.,
2 Meridian West, Meridian Business Park, Leicester LE19 1WX
Phone: 0116 - 289 3644; E-Mail: uk@tetenal.com; www.tetenaluk.com
- Further information obtainable from:** Department environment and safety. E-Mail: info@tetenal.com
- 1.4 Emergency telephone number:** Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790

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. Pressurised container: May burst if heated.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.
-
- Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Xi; Irritant
R36: Irritating to eyes.
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! Pressurized 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 EU guidelines:**
The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.
- Code letter and hazard designation of product:**
-   Xi Irritant
F+ Extremely flammable
- Risk phrases:**
12 Extremely flammable.

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36 Irritating to eyes.

. Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition - No smoking.
- 23 Do not breathe spray.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.
- 29 Do not empty into drains.

. Special labelling of certain preparations:

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.

. Classification in accordance with Directive 75/324/EEC: Extremely flammable**. 2.3 Other hazards****. Results of PBT and vPvB assessment**

- . **PBT:** Not applicable.
- . **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

. 3.2 Chemical characterization: Mixtures

. **Description:** Mixture of substances listed below and with nonhazardous additions.

. Dangerous components:

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	30-50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	10-20%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol  Xi R36;  F R11 R67  Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336	30-50%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	and isobutane  F+ R12  Flam. Gas 1, H220; Press. Gas, H280	1-10%

. Regulation (EC) No 648/2004 on detergents / Labelling for contents

aliphatic hydrocarbons	≥ 30%
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. **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

. 4.1 Description of first aid measures

. **General information:** Immediately remove any clothing/shoes soiled by the product.

. **After inhalation:** Supply fresh air.

. **After skin contact:** Immediately rinse with water.

. After eye contact:

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

. **After swallowing:** If symptoms persist consult doctor.

. 4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

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- 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, sand, extinguishing powder. Do not use 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:** Do not inhale explosion gases or combustion gases.
- Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- 6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- 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.

SECTION 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 from heat.
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.
Do not spray onto a naked flame or any incandescent material.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Storage:**
- Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Store only in the original receptacle.
Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility:**
Store away from foodstuffs.
Store away from flammable substances.
Store away from oxidizing agents.

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- . **Further information about storage conditions:**
 Keep container tightly sealed.
 Do not seal receptacle gas tight.
 Store in cool, dry conditions in well sealed receptacles.
 Protect from heat and direct sunlight.
 Store under lock and key and out of the reach of children.
 Recommended storage temperature: 5-25 °C
- . **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.

. 8.1 Control parameters

. Ingredients with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol (25-50%)

WEL (Great Britain)	Short-term value: 1250 mg/m ³ , 500 ppm Long-term value: 999 mg/m ³ , 400 ppm
PEL (USA)	Long-term value: 980 mg/m ³ , 400 ppm
REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI

106-97-8 butane (25-50%)

WEL (Great Britain)	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)
REL (USA)	Long-term value: 1900 mg/m ³ , 800 ppm
TLV (USA)	Short-term value: 2370 mg/m ³ , 1000 ppm

74-98-6 propane (10-<25%)

PEL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1800 mg/m ³ , 1000 ppm
TLV (USA)	refer to Appendix F: minimal oxygen content

75-28-5 and isobutane (3-5%)

TLV (USA)	Short-term value: 2370 mg/m ³ , 1000 ppm
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. Ingredients with biological limit values:

67-63-0 propan-2-ol (25-50%)

BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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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:

- The usual precautionary measures are to be adhered to when handling chemicals.
- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.

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Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.

- . **Respiratory protection:** Ensure adequate ventilation
- . **Protection of hands:**



Protective gloves

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**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Butyl rubber, BR
Nitrile rubber, NBR
Neoprene gloves

- . **Penetration time of glove material**

Glove material	breakthroug-time	layer thickness
Butyl rubber:	≥ 480 min	≥0,4mm
nitrile:	≥480min	≥0,38mm
Neopren:	≥240min	≥0,65mm

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

- . **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:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

- . **pH-value:** Not determined.

- . **Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	-44 °C

- . **Flash point:** -60 °C

- . **Flammability (solid, gaseous):** Not applicable.

- . **Ignition temperature:** 365 °C

- . **Decomposition temperature:** Not determined.

- . **Self-igniting:** Product is not selfigniting.

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. Danger of explosion:	Not determined.
. Explosion limits:	
Lower:	1.5 Vol %
Upper:	12.0 Vol %
. Vapour pressure at 20 °C:	4100 hPa
. Density at 20 °C:	0.65 g/cm ³
. Relative density	Not determined.
. Vapour density	Not determined.
. Evaporation rate	Not applicable.
. Solubility in / Miscibility with water:	Fully miscible.
. Partition coefficient (n-octanol/water):	Not determined.
. Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
. Solvent content:	
Organic solvents:	100 %
VOC (EC)	100.00 %
. 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- . **10.1 Reactivity**
- . **10.2 Chemical stability**
- . **Thermal decomposition / conditions to be avoided:** Stable at environment temperature.
- . **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- . **10.4 Conditions to avoid** No further relevant information available.
- . **10.5 Incompatible materials:** Under certain fire conditions, traces of other toxic gases cannot be excluded.
- . **10.6 Hazardous decomposition products:** Irritant gases/vapours

SECTION 11: Toxicological information

- . **11.1 Information on toxicological effects**
- . **Acute toxicity:**
- . **Primary irritant effect:**
- . **on the skin:** No irritant effect.
- . **on the eye:** Irritating effect.
- . **Sensitization:** No sensitizing 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
- . **Acute effects (acute toxicity, irritation and corrosivity)**
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

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SECTION 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 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**

15 01 10*	packaging containing residues of or contaminated by dangerous substances
15 01 04	metallic packaging

- . **Uncleaned packaging:**
- . **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---------------------------------------|---------------------|
| . 14.1 UN-Number | |
| . ADR, IMDG, IATA | UN1950 |
| . 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 |

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. 14.4 Packing group . ADR, IMDG, IATA	Void
. 14.5 Environmental hazards: . Marine pollutant:	No
. 14.6 Special precautions for user . Danger code (Kemler): . 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) . Transport category . Tunnel restriction code	1L 2 D
. UN "Model Regulation":	UN1950, AEROSOLS, 2.1

SECTION 15: Regulatory information

. 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.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

R11 Highly flammable.
R12 Extremely flammable.
R36 Irritating to eyes.
R67 Vapours may cause drowsiness and dizziness.

. **Contact:** e-mail: sida@tetenal.com

. **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 Harmonized 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)

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