

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2009

Revision: 26.01.2009

## 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** *teslanol Oszillin "t6" 200 ml / 400 ml*

- **Application of the substance / the preparation**

*Lubricating oil*

*Cleaning agent/ Cleaner*

- **Manufacturer/Supplier:**

*wentronic - Electronic Components Handels GmbH*

*Pillmannstrasse 12*

*D-38112 Braunschweig*

*Deutschland / Germany*

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- **Further information obtainable from:**

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## 2 Hazards identification

- **Hazard description:**



*F+ 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.*

*Has a narcotizing effect.*

*R 12 Extremely flammable.*

*R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

*R 67 Vapours may cause drowsiness and dizziness.*

*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.*

*Without sufficient ventilation formation of explosive mixtures may be possible.*

*Keep out of the reach of children*

- **Classification system:**

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

## 3 Composition/information on ingredients

- **Chemical characterization**

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

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· <b>Dangerous components:</b>		
CAS: 64742-48-9 EINECS: 265-150-3	Naphtha (petroleum), hydrotreated heavy ☒ Xn; R 10-65-66-67	25-50%
CAS: 106-97-8 EINECS: 203-448-7	butane ☒ F+; R 12	25-50%
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-51/53-65-67	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane ☒ F+; R 12	2.5-10%
CAS: 75-28-5 EINECS: 200-857-2	isobutane ☒ F+; R 12	≤ 2.5%
CAS: 110-54-3 EINECS: 203-777-6	n-hexane ☒ Xn, ☒ Xi, ☒ F, ☒ N; R 11-38-48/20-62-51/53-65-67	≤ 2.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

## 4 First aid measures

· **General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

· **After inhalation:**

Supply fresh air; consult doctor in case of complaints.

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

· **After skin contact:** Wash with water and soap

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

Show this MSDS

## 5 Fire-fighting measures

· **Suitable extinguishing agents:**

CO<sub>2</sub>, 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 caused by the substance, its products of combustion or resulting gases:**

Risk of bursting in case of fire heat

In case of fire, the following can be released:

Carbon monoxide (CO)

Toxic pyrolysis products

· **Protective equipment:** Do not inhale explosion gases or combustion gases.

· **Additional information** Cool endangered receptacles with water spray.

## 6 Accidental release measures

· **Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Product forms slippery surface when combined with water.

Ensure adequate ventilation

Keep away from ignition sources.

Avoid contact with skin / eyes and inhalation.

· **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Allow to evaporate.

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Absorb liquid components with liquid-binding material.

## 7 Handling and storage

- **Handling:**
- **Information 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.  
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.
- **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:**  
Not required.  
Store away from oxidizing agents.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.
- **Recommended storage temperature:** 15 - 35°C, max. 50°C

## 8 Exposure controls/personal protection

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

- **Ingredients with limit values that require monitoring at the workplace:**

### 106-97-8 butane

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1.3-diene)
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### 110-54-3 n-hexane

WEL	Long-term value: 72 mg/m <sup>3</sup> , 20 ppm
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- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.  
Immediately remove all soiled and contaminated clothing  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
- **Material of gloves** If contamination is possible, use gloves made of nitrile according EN 374
- **Penetration time of glove material** > 480 min / 0,4 mm thickness
- **Eye protection:** Not required.

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## 9 Physical and chemical properties

### · General Information

Form: Aerosol  
 Colour: Colourless  
 Odour: Characteristic

### · Change in condition

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

· Flash point: Not applicable, as aerosol.

· Ignition temperature: 240°C

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Risk of bursting at temperatures > 50°C. Damage of the container may lead to the formation of explosive mixtures of gas/vapors with air.

### · Explosion limits:

Lower: 0.6 Vol %  
 Upper: 8.5 Vol %  
 Pressure (20°C): 3,0 - 5,5 bar

· Density at 20°C: 0.66 g/cm<sup>3</sup>

### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

### · Solvent content:

Organic solvents: 53.0 %

· Additional information Vapors are heavier than air.

## 10 Stability and reactivity

- Thermal decomposition / conditions to be avoided: Risk of bursting at temperatures >50°C.
- Dangerous reactions By use or incidental release the fprmation of explosuve vapor/air mixtures is possible.
- Dangerous decomposition products: In case of fire the formation of toxic gases is possible.
- Additional information: Stable for a storage time of min. 24 months

## 11 Toxicological information

### · Acute toxicity:

### · LD/LC50 values relevant for classification:

64742-48-9 Naphtha (petroleum), hydrotreated heavy

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

### · Primary irritant effect:

- on the skin: low irritant - no duty to declare
- on the eye: low
- Sensitization: No sensitizing effects known.

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## 12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

**64742-48-9 Naphtha (petroleum), hydrotreated heavy**

LC 50 / 96 h | >100 mg / l (fis)

**64742-49-0 Naphtha (petroleum), hydrotreated light**

LC 50 / 96 h | < 10 mg / l (daphnia)

- **Remark:** Harmful to fish

- **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.

Harmful to aquatic organisms

## 13 Disposal considerations

- **Product:**

- **Recommendation**

empty cans: material recycling

filled cans: remove in accordance with local regulations

- **European waste catalogue**

16 00 00 | WASTES NOT OTHERWISE SPECIFIED IN THE LIST

16 05 00 | gases in pressure containers and discarded chemicals

16 05 04 | gases in pressure containers (including halons) containing dangerous substances

- **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 2 5F Gases.

· **Danger code (Kemler):** -

· **UN-Number:** 1950

· **Packaging group:** -

· **Hazard label:** 2.1

· **Description of goods:** 1950 AEROSOLS

· **Remarks:** Transportation as "LIMITED QUANTITIES" (LQ2) according 3.4 ADR possible.

Sole marking: UN 1950 (rhombe)

Entry in the transportation document: Transportation according chapter 3.4 ADR

- **Maritime transport IMDG:**



· **IMDG Class:** 2.1

· **UN Number:** 1950

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- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

## 15 Regulatory information

- **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:**

F+ Extremely flammable

- **Risk phrases:**

12 Extremely flammable.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

67 Vapours may cause drowsiness and dizziness.

- **Safety phrases:**

23 Do not breathe aerosol.

24/25 Avoid contact with skin and eyes.

29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

51 Use only in well-ventilated areas.

- **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. Keep away from sources of ignition - No smoking.

Without sufficient ventilation formation of explosive mixtures may be possible.

Keep out of the reach of children

- **National regulations:**

- **Information about limitation of use:**

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

Class	Share in %
I	≤ 2,5
NK	50-100

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### 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 R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 38 Irritating to skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 62 Possible risk of impaired fertility.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

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