

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 16.11.2009

Revision: 16.11.2009

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

- **Product details**

- **Trade name:** *teslanol T7 Isolier- und Schutzlack Spray 200 / 400 ml (Art. 26027 / 26028)*

- **Application of the substance / the preparation** *Clear coating material, Varnish*

- **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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- **Information in case of emergency:**

Telefon +49-(0)531-210 58-0
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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 66 Repeated exposure may cause skin dryness or cracking.

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.*

- **Dangerous components:**

CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	< 20%
EINECS: 265-151-9	Xn, Xi, F, N; R 11-38-51/53-65-67	

(Contd. on page 2)

Safety Data Sheet







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Trade name: teslanol T7 Isolier- und Schutzlack Spray 200 / 400 ml (Art. 26027 / 26028)

(Contd. of page 1)

CAS: 106-97-8 EINECS: 203-448-7	butane  F+; R 12	25-50%
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether  F+; R 12	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane  F+; R 12	2.5-10%
CAS: 67-64-1 EINECS: 200-662-2	acetone  Xi,  F; R 11-36-66-67	< 20%
CAS: 75-28-5 EINECS: 200-857-2	isobutane  F+; R 12	≤ 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:** 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.

· **After swallowing:**

If product is swallowed DO NOT induce vomiting. DANGER OF ASPIRATION. Search for medical help and show this MSDS.

5 Fire-fighting measures

· **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

· **Special hazards caused by the substance, its products of combustion or resulting gases:**

Risk of bursting in case of fire heat

· **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.

Ensure adequate ventilation

Keep away from ignition sources.

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

· **Measures for cleaning/collecting:**

Ensure adequate ventilation.

Let volatiles evaporate - stem up residues mechanically

· **Additional information:** Keep off any handling equipment with engines (source of ignition)

7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

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Revision: 16.11.2009

Trade name: teslanol T7 Isolier- und Schutzlack Spray 200 / 400 ml (Art. 26027 / 26028)

(Contd. of page 2)

- **Information about fire - and explosion protection:**
 Keep ignition sources away - Do not smoke.
 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.
- **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.
- **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 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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115-10-6 dimethyl ether

WEL	Short-term value: 958 mg/m ³ , 500 ppm Long-term value: 766 mg/m ³ , 400 ppm
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67-64-1 acetone

WEL	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 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:**

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 skin.
 Avoid contact with the eyes and skin.

- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
 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

(Contd. on page 4)

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Revision: 16.11.2009

Trade name: teslanol T7 Isolier- und Schutzlack Spray 200 / 400 ml (Art. 26027 / 26028)

(Contd. of page 3)

application.

- **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.

- **Eye protection:**



Tightly sealed goggles

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
value concerns to propellant

- **Flash point:** Not applicable, as aerosol.

- **Ignition temperature:** 235°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:	0.7 Vol %
Upper:	18.6 Vol %
Pressure (20°C)	3 - 4,5 bar

- **Density at 20°C:** 0.65 g/cm³

- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.

- **Solvent content:**

Organic solvents: ca. 39 %

- **Solids content:** 4.3 %

- **Additional information** Vapors are heavier than air.

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Risk of bursting at temperatures >50°C.

- **Materials to be avoided:** Avoid contact with oxidizing agents.

- **Dangerous reactions** By use or incidental release the formation of explosive vapor/air mixtures is possible.

- **Dangerous decomposition products:** No dangerous decomposition products known.

- **Additional information:** Stable for a storage time of min. 24 months

GB

(Contd. on page 5)

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Revision: 16.11.2009

Trade name: teslanol T7 Isolier- und Schutzlack Spray 200 / 400 ml (Art. 26027 / 26028)

(Contd. of page 4)

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

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

Oral	LD50	> 2000 mg/kg (rat)
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Dermal	LD50	> 2000 mg/kg (rat)
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Inhalative	LC50/4 h	> 20 mg/l (rat)
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- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** No 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

12 Ecological information

- **Ecotoxicological effects:**

- **Acquatic toxicity:**

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

LC 50 / 96 h	< 10 mg / l (fis)
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- **Remark:** Toxic for 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.

Also poisonous for fish and plankton in water bodies.

Toxic for 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
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16 05 00	gases in pressure containers and discarded chemicals
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16 05 04	gases in pressure containers (including halons) containing dangerous substances
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- **Uncleaned packaging:**

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

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(Contd. on page 6)

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(Contd. of page 5)

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
- **Special marking:** Symbol (fish and tree)
- **Description of goods:** 1950 AEROSOLS
- **Limited quantities (LQ) LQ2**
- **Transport category** 2
- **Tunnel restriction code** D
- **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
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** Yes
Symbol (fish and tree)
- **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

· Environmental hazards:

Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

(Contd. on page 7)

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Trade name: teslanol T7 Isolier- und Schutzlack Spray 200 / 400 ml (Art. 26027 / 26028)

(Contd. of page 6)

· **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.
- 66 Repeated exposure may cause skin dryness or cracking.
- 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 %
NK	50-100

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**

- 11 Highly flammable.
- 12 Extremely flammable.
- 36 Irritating to eyes.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.