

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.09.2009

Revision: 26.01.2009

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

- **Product details**

- **Trade name:** *teslanol Label Off "LO" 200 ml*

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

*Solvent Cleaner*

*Label Remover*

- **Manufacturer/Supplier:**

*wentronic - Electronic Components Handels GmbH*

*Pillmannstrasse 12*

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## 2 Hazards identification

- **Hazard description:**



*Xi Irritant*

*F+ Extremely flammable*

*N Dangerous for the environment*

- **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.*

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

*Warning! Pressurized container.*

*Has a narcotizing effect.*

*R 12 Extremely flammable.*

*R 38 Irritating to skin.*

*R 43 May cause sensitisation by skin contact.*

*R 51/53 Toxic 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.*

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· <b>Dangerous components:</b>		
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-mentha-1,8-diene Xn, Xi, N; R 10-38-43-50/53-65	10-25%
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: 64742-82-1 EINECS: 265-185-4	Naphtha (petroleum), hydrodesulfurized heavy Xn, N; R 10-51/53-65-66-67	10-25%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Xn, Xi, N; R 10-37-51/53-65-66-67	10-25%
CAS: 64741-65-7 EINECS: 265-067-2	Naphtha (petroleum), heavy alkylate Xn; R 53-65-66	10-25%
CAS: 74-98-6 EINECS: 200-827-9	propane F+; R 12	10-25%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Xi, F; R 11-36-67	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene Xn, Xi; R 10-20/21-38	≤ 2.5%
CAS: 95-63-6 EINECS: 202-436-9	1,2,4-trimethylbenzene Xn, Xi, N; R 10-20-36/37/38-51/53	≤ 2.5%
CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene Xn, F; R 11-20	≤ 2.5%
CAS: 108-67-8 EINECS: 203-604-4	mesitylene Xi, N; R 10-37-51/53	≤ 2.5%
· <b>Regulation (EC) No 648/2004 on detergents / Labelling for contents</b>		
aliphatic hydrocarbons		≥ 30%
LIMONENE		

· **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.  
Immediately remove any clothing soiled by the product.

· **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:** Immediately wash with water and soap and rinse thoroughly.

· **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:

Toxic pyrolysis products

· **Protective equipment:** Mouth respiratory protective device.

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· **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.

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.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7 Handling and storage

· **Handling:**· **Information for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Avoid inhalation and contact with the skin and the eyes.

· **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:**

Store away from oxidizing agents.

Store away from foodstuffs.

· **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:****67-63-0 propan-2-ol**WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppmLong-term value: 999 mg/m<sup>3</sup>, 400 ppm**1330-20-7 xylene**WEL Short-term value: 441 mg/m<sup>3</sup>, 100 ppmLong-term value: 220 mg/m<sup>3</sup>, 50 ppm

Sk; BMGV

**95-63-6 1,2,4-trimethylbenzene**WEL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm

ILV

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**100-41-4 ethylbenzene**

WEL Short-term value: 552 mg/m<sup>3</sup>, 125 ppm  
 Long-term value: 441 mg/m<sup>3</sup>, 100 ppm

**108-67-8 mesitylene**

WEL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm  
 ILV

- **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 eyes and skin.
- **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:** Safety glasses in case of splittings

## 9 Physical and chemical properties

· **General Information**

**Form:** Aerosol  
**Colour:** Colourless  
**Odour:** lemon-like

· **Change in condition**

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

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

· **Ignition temperature:** 255°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:** 10.9 Vol %  
**Pressure (20°C)** 3 - 4 bar

· **Density at 20°C:** 0.745 g/cm<sup>3</sup>

· **Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· **Solvent content:**

**Organic solvents:** 88.6 %

· **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 formation of explosive vapor/air mixtures is possible.

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- **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:**

**5989-27-5 (R)-p-mentha-1,8-diene**

Oral	LD50	4400 mg/kg (rat)
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**64742-95-6 Solvent naphtha (petroleum), light arom.**

Oral	LD50	>6800 mg/kg (rat)
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Dermal	LD50	>3400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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- **Primary irritant effect:**

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

- **on the eye:** low

- **Sensitization:** Sensitization possible through skin contact.

- **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

- **Sensitisation** May cause sensitisation by skin contact.

## 12 Ecological information

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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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## 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
- **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
- **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:



Xi Irritant  
F+ Extremely flammable  
N Dangerous for the environment

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· **Hazard-determining components of labelling:**

(R)-p-mentha-1,8-diene

· **Risk phrases:**

- 12 Extremely flammable.  
38 Irritating to skin.  
43 May cause sensitisation by skin contact.  
51/53 Toxic 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.  
37 Wear suitable gloves.  
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**

- 10 Flammable.  
11 Highly flammable.  
12 Extremely flammable.  
20 Harmful by inhalation.  
20/21 Harmful by inhalation and in contact with skin.  
36 Irritating to eyes.  
36/37/38 Irritating to eyes, respiratory system and skin.  
37 Irritating to respiratory system.  
38 Irritating to skin.  
43 May cause sensitisation by skin contact.  
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
53 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.