

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 Losol "t35" 200 ml*
- **Application of the substance / the preparation** *Lubricating oil*
- **Manufacturer/Supplier:**
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 Deutschland / Germany
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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.

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

Warning! Pressurized container.

R 12 Extremely flammable.

R 53 May cause long-term adverse effects in the aquatic environment.

R 66 Repeated exposure may cause skin dryness or cracking.

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: 106-97-8	butane	F+; R 12	25-50%
EINECS: 203-448-7			

(Contd. on page 2)

Safety Data Sheet




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Revision: 26.01.2009

Trade name: teslanol Losol "t35" 200 ml

(Contd. of page 1)

CAS: 64741-65-7 EINECS: 265-076-2	Naphtha (petroleum), heavy alkylate	 Xn; R 53-65-66	25-50%
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%

· **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.

· **After skin contact:**

Generally the product does not irritate the skin.
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:**

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

Particular danger of slipping on leaked/spilled product.

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

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.

(Contd. on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2009

Revision: 26.01.2009

Trade name: teslanol Losol "t35" 200 ml

(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:** 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 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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- **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.
 Do not inhale gases / fumes / aerosols.
- **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 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.

(Contd. on page 4)

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2009

Revision: 26.01.2009

Trade name: teslanol Losol "t35" 200 ml

(Contd. of page 3)

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **General Information**

Form:	Aerosol
Colour:	According to product specification
Odour:	lemon-like

· **Change in condition**

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

· **Flash point:** -97°C· **Ignition temperature:** 365°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:	1.5 Vol %
Upper:	10.9 Vol %
Pressure (20°C)	2,5 - 4,5 bar

· **Density at 20°C:** 0.67 g/cm³· **Solubility in / Miscibility with water:** Not miscible or difficult to mix.· **Solvent content:**

Organic solvents:	0.0 %
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· **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** No dangerous reactions known.· **Dangerous decomposition products:** No dangerous decomposition products known.· **Additional information:** Stable for a storage time of min. 24 months

11 Toxicological information

· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** No irritant effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.

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(Contd. on page 5)

Safety Data Sheet

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Revision: 26.01.2009

Trade name: teslanol Losol "t35" 200 ml

(Contd. of page 4)

12 Ecological information

- **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.

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

- **Label** 2.1

- **Packaging group:** -

- **EMS Number:** F-D,S-U

- **Marine pollutant:** No

(Contd. on page 6)

Safety Data Sheet

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Revision: 26.01.2009

Trade name: teslanol Losol "t35" 200 ml

(Contd. of page 5)

· **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.
- 53 May cause long-term adverse effects in the aquatic environment.
- 66 Repeated exposure may cause skin dryness or cracking.

- **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	10-25

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**

- 12 Extremely flammable.
- 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.