



Safety data sheet

according to 1907/2006/EC, Article 31

Page 1/7

Printing date 11.03.2014

Revision: 11.03.2014

Version number 1

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

- **Product identifier**
- **Trade name:** AUTOSOL® Liquid Metall Cleaner
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Application of the substance / the mixture** Cleaning agent/ Cleaner
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Dursol-Fabrik Otto Durst GmbH & Co. KG
Martinstr. 22
42655 SOLINGEN
Germany
Tel.: +49 (0)212 - 2718-0
Fax: +49 (0)212 - 208795
www.autosol.de www.dursol.de
- **Further information obtainable from:**
Abteilung Produktsicherheit
labor@autosol.de
- **Emergency telephone number:**
+49 (0)212 - 2718-0
8.00 - 16.00 h

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Not applicable.
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).
- **Special labelling of certain preparations:**
Contains (R)-p-mentha-1,8-diene. May produce an allergic reaction.
Safety data sheet available for professional user on request.
- **Additional information:** Keep out of reach of children.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

— GB —



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(Contd. of page 1)

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components:**

CAS: 8008-20-6 EINECS: 232-366-4	Kerosine (petroleum) ☒ Xn R65 ☒ Asp. Tox. 1, H304; Aquatic Chronic 3, H412	1-10%
CAS: 5989-27-5 EINECS: 227-813-5	(R)-p-mentha-1,8-diene ☒ Xi R38; ☒ Xi R43; ☒ N R50/53 R10 ☒ Flam. Liq. 3, H226; ☒ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☒ Skin Irrit. 2, H315; Skin Sens. 1, H317	≤ 1.0%

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

4 First aid measures

· **Description of first aid measures**· **General information:** No special measures required.· **After inhalation:** Supply fresh air; consult doctor in case of complaints.· **After skin contact:** Generally the product does not irritate the skin.· **After eye contact:** Rinse opened eye for several minutes under running water.· **After swallowing:** If symptoms persist consult doctor.· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed**

No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5 Firefighting measures

· **Extinguishing media**· **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.· **For safety reasons unsuitable extinguishing agents:** Water with full jet· **Special hazards arising from the substance or mixture** No further relevant information available.· **Advice for firefighters**· **Protective equipment:** No special measures required.· **Additional information** Cool endangered receptacles with water spray.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** Not required.

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Page 3/7

Printing date 11.03.2014

Revision: 11.03.2014

Version number 1

Trade name: AUTOSOL® Liquid Metall Cleaner

(Contd. of page 2)

- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 12
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not necessary if room is well-ventilated.
- **Protection of hands:**
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
Rubber gloves
- **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.
Recommended thickness of the material: ≥ 0.5 mm

(Contd. on page 4)

— GB —



Safety data sheet

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Revision: 11.03.2014

Version number 1

Trade name: AUTOSOL® Liquid Metall Cleaner

(Contd. of page 3)

· 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.

For the mixture of chemicals mentioned below the penetration time has to be at least 480 minutes (Permeation according to EN 374 Part 3: Level 6).

· Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

· Information on basic physical and chemical properties**· General Information****· Appearance:****Form:** Fluid**Colour:** White**· Odour:** Fruit-like**· Odour threshold:** Not determined.**· pH-value at 20 °C:** 8.5**· Change in condition****Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** 100 °C**· Flash point:** > 100 °C**· Flammability (solid, gaseous):** Not applicable.**· Ignition temperature:****Decomposition temperature:** Not determined.**· Self-igniting:** Product is not selfigniting.**· Danger of explosion:** Product does not present an explosion hazard.**· Explosion limits:****Lower:** Not determined.**Upper:** Not determined.**· Vapour pressure:** Not determined.**· Density at 20 °C:** 1.13 g/cm³**· Relative density** Not determined.**· Vapour density** Not determined.**· Evaporation rate** Not determined.**· Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.**· Viscosity:****Dynamic:** Not determined.**Kinematic:** Not determined.

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Page 5/7

Printing date 11.03.2014

Revision: 11.03.2014

Version number 1

Trade name: AUTOSOL® Liquid Metall Cleaner

(Contd. of page 4)

· **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

8008-20-6 Kerosine (petroleum)

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)

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

Oral	LD50	4400 mg/kg (rat)
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- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.

12 Ecological information

- **Toxicity**

· **Aquatic toxicity:**

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

EC50 (48 h)	6.7 mg/l (daphnia) (OECD 202)
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- **Persistence and degradability** No further relevant information available.

(Contd. on page 6)

— GB —



Safety data sheet

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Trade name: AUTOSOL® Liquid Metall Cleaner

(Contd. of page 5)

- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

— GB —

(Contd. on page 7)



Safety data sheet

according to 1907/2006/EC, Article 31

Page 7/7

Printing date 11.03.2014

Revision: 11.03.2014

Version number 1

Trade name: AUTOSOL® Liquid Metall Cleaner

(Contd. of page 6)

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

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

- R10 Flammable.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

· Department issuing MSDS:

Dursol-Fabrik Otto Durst GmbH & Co. KG
Martinstraße 22
42655 Solingen
Germany
Abteilung F&E / Produktsicherheit

· Contact: labor@autosol.de

— GB —