

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### Identification of the substance or preparation

**ProLine Jet Clean Diesel System Reiniger 500ML**  
**Art.: 5154**

#### Use of the substance/preparation

System cleaner for vehicle fuel units (diesel engines)

#### Company/undertaking identification

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr  
 Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

#### Emergency telephone

#### Advisory office in case of poisoning:

Tel.:

#### Telephone number of the company in case of emergencies:

Tel. (+49) 0731-1420-0

### 2. HAZARDS IDENTIFICATION

#### To people

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Risk of explosion if heated under confinement.

Harmful: may cause lung damage if swallowed.

When using: development of flammable vapour/air mixture possible.

#### To the environment

See point 12.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)	DNEL	PNEC
Naphtha (petroleum), hydrodesulfurized heavy			
80 - 100	Xn	65-66	265-185-4
2-ethylhexyl nitrate			
1 -< 25	Xn	20/21-44-52-53	248-363-6
Solvent naphtha (petroleum), heavy arom.			
0,1 -< 1	Xn/N	51-53-65-66-67	265-198-5

For complete wording of the R-phrases, refer to point 16.

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## 4. FIRST AID MEASURES

### 4.1 Inhalation

Remove person from danger area.  
Supply person with fresh air and consult doctor according to symptoms.  
If the person is unconscious, place in a stable side position and consult a doctor.

### 4.2 Eye contact

Remove contact lenses.  
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### 4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

### 4.4 Ingestion

Rinse the mouth thoroughly with water.  
Do not induce vomiting - give copious water to drink. Consult doctor immediately.  
Danger of aspiration  
In case of vomiting, keep head low so that the stomach content does not reach the lungs.

### 4.5 Special resources necessary for first aid

n.c.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Suitable extinguishing media

CO<sub>2</sub>  
Extinction powder  
Foam  
Cool container at risk with water.

### 5.2 Extinguishing media which shall not be used for safety reasons

High volume water jet

### 5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon  
Oxides of nitrogen  
Hydrocarbons  
Toxic pyrolysis products.  
Danger of explosion  
Explosive vapour/air mixture  
Dangerous vapours heavier than air.

### 5.4 Special protective equipment for fire-fighters

In case of fire and/or explosion do not breathe fumes.  
Protective respirator with independent air supply.  
According to size of fire  
Full protection, if necessary

### 5.5 Further information

Dispose of contaminated extinction water according to official regulations.

## 6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

### 6.1 Personal precautions

Remove possible causes of ignition - do not smoke.  
Ensure sufficient supply of air.  
Avoid inhalation, and contact with eyes or skin.  
If applicable, caution - risk of slipping

### 6.2 Environmental precautions

If leakage occurs, dam up.  
Prevent from entering drainage system.  
Prevent surface and ground-water infiltration, as well as ground penetration.

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If accidental entry into drainage system occurs, inform responsible authorities.

### 6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr) and dispose of according to point 13.

## 7. HANDLING AND STORAGE

### 7.1 Handling

#### Tips for safe handling:

See point 6.1  
 Ensure good ventilation.  
 Keep away from sources of ignition - Do not smoke.  
 Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
 Observe directions on label and instructions for use.  
 Use working methods according to operating instructions.

### 7.2. Storage

#### Requirements for storage rooms and containers:

Store product closed and only in original packing.  
 Not to be stored in gangways or stair wells.  
 Solvent resistant floor  
 Do not store with oxidizing agents.

#### Special storage conditions:

See point 10  
 Store in a well ventilated place.  
 Protect from direct sunlight and warming.  
 Store cool

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Exposure limit values

Chemical Name	Naphtha (petroleum), hydrodesulfurized heavy		Content %:80 - 100
WEL-TWA: 100 mg/m <sup>3</sup> (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		

Chemical Name	Solvent naphtha (petroleum), heavy arom.		Content %:0,1 -< 1
WEL-TWA: 500 mg/m <sup>3</sup> (aromatics) (WEL), 100 mg/m <sup>3</sup> (AGW)	WEL-STEL: 2(II) (AGW)	---	
BMGV: ---	Other information: ---		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

\*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

### 8.2 Exposure controls

#### 8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.  
 Keep away from food, drink and animal feedingstuffs.  
 Respiratory protection:  
 If OES or MEL is exceeded.  
 Gas mask filter A (EN 14387)  
 At high concentrations:  
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

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Observe wearing time limitations for respiratory protection equipment.

Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective PVC gloves (EN 374)

Protective hand cream recommended.

Eye protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.2 Environmental exposure controls

n.av.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Yellow
Odour:	Characteristic
pH-value undiluted:	n.a.
Boiling point/boiling range (°C):	n.av.
Melting point/melting range (°C):	n.av.
Flash point (°C):	63
Oxidising properties:	No
Minimum limit of explosion:	0,6 Vol% *
Maximum limit of explosion:	7,0 Vol% *
Vapour pressure:	n.c.
Density (g/ml):	0,811 (15°C)
Water solubility:	Insoluble
Vapour density (air = 1):	Vapours heavier than air.
Viscosity:	< 7 mm <sup>2</sup> /s (40°C)

\* Naphtha (petroleum), hydrodesulfurized heavy

## 10. STABILITY AND REACTIVITY

### Conditions to avoid

See point 7

Stable when handled and stored correctly.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

### Materials to avoid

See point 7

Avoid contact with strong oxidizing agents.

### Hazardous decomposition products

See point 5.3

No decomposition when used as directed.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):

See point 15.

Inhalation, LC50 rat inhal.(mg/l/4h):

n.av.

Skin contact, LD50 rat dermal (mg/kg):

See point 15.

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Eye contact: n.av.

### Delayed and chronic effects

Sensitization: n.c.  
 Carcinogenicity: n.c.  
 Mutagenicity: n.c.  
 Reproductive toxicity: n.c.  
 Narcosis: n.c.

### Further information

The product was not tested.  
 Classification according to calculation procedure.  
 The following may occur:  
 Irritation of the eyes  
 Product removes fat.  
 Dermatitis (skin inflammation)  
 Ingestion:  
 Oedema of the lungs  
 Lung damage

## 12. ECOLOGICAL INFORMATION

Water hazard class (Germany): 2  
 Self classification: Yes (VwVwS)  
 Persistence and degradability:  
 Readily biodegradable \*  
 Behaviour in sewage plants: Isolate as much as possible with an oil separator.  
 According to the recipe, contains no AOX.  
 Aquatic toxicity: n.av.  
 Ecological toxicity: n.av.  
 Accumulation:  
 Concentration in organisms possible. \*  
 \* Naphtha (petroleum), hydrodesulfurized heavy

## 13. DISPOSAL CONSIDERATIONS

### 13.1. for the material / preparation / residue

EC disposal code no.:  
 The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)  
 07 07 04 other organic solvents, washing liquids and mother liquors  
 14 06 03 other solvents and solvent mixes  
 Recommendation:  
 Pay attention to local and national official regulations  
 Implement substance recycling.  
 E.g. suitable incineration plant.

### 13.2 for contaminated packing material

See point 13.1  
 Pay attention to local and national official regulations  
 Empty container completely.  
 Uncontaminated packaging can be recycled.  
 Dispose of packaging that cannot be cleaned in the same manner as the substance.

## 14. TRANSPORT INFORMATION

### General statements

UN-Number: n.a.

### Road/Rail-transport (ADR/RID)

Class/packing group: n.a.  
 Classification code: n.a.  
 LQ: n.a.  
 Tunnel restriction code:

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### Transport by sea

IMDG-code: n.a. (class/packing group)  
 Marine Pollutant: n.a.

### Transport by air

IATA: n.a. (class/secondary danger/packing group)

### Additional information:

Non-dangerous material according to Transport Regulations.

## 15. REGULATORY INFORMATION

### Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)



Symbols: Xn

Indications of danger:

Harmful

R-phrases:

44 Risk of explosion if heated under confinement.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

2 Keep out of the reach of children.

15 Keep away from heat.

23.f Do not breathe vapour/spray.

24 Avoid contact with skin.

35 This material and its container must be disposed of in a safe way.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Additions:

Naphtha (petroleum), hydrodesulfurized heavy

Observe restrictions: Yes

Observe youth employment law (German regulation).

Observe law on protection of expectant mothers (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

VOC 1999/13/EC 98,1%

VOC CH 88,1%

## 16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 B

Revised points: 14

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).

65 Harmful: may cause lung damage if swallowed.

65 Also harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

20/21 Harmful by inhalation and in contact with skin.

20/21 Also harmful by inhalation and in contact with skin.

44 Risk of explosion if heated under confinement.

52 Harmful to aquatic organisms.

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

51 Toxic to aquatic organisms.

67 Vapours may cause drowsiness and dizziness.

### Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

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VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

These statements were made by:

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