

## Safety Data Sheet according to EC-Regulation 91/155/EEC

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

#### Identification of the substance or preparation

#### ProLine Benzin System Reiniger 500ML

Art.: 5153

#### Use of the substance/preparation

Refer to description of material or preparation.

#### Company/undertaking identification

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

#### Emergency telephone / Office for advice

#### Advisory office in case of poisoning:

Tel.:

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

Tel. (+49) 0731-1420-0

### 2. Composition/information on ingredients

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
Xylene	1 -< 12,5	Xn/Xi	10-20/21-38	215-535-7
Naphtha (petroleum), hydrodesulfurized heavy	60 - 80	Xn/N	10-51-53-65-66-67	265-185-4
benzene, mono-C4-9-alkyl derivatives	1 - 10	Xn/N	51-53-65-67	272-258-4
polyalkyleneamine	1 - 10	Xi	38-52-53	
alkaryl polyether	1 -< 25	---	52-53	
Liquid paraffin	1 - 10	Xn	65	
Solvent naphtha (petroleum), heavy arom.	0,1 -< 2,5	Xn/N	51-53-65-66-67	265-198-5

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

### 3. Hazards identification

#### 3.1 To people

See point 11 and 15.

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

Product is flammable

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

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

Vapours may cause drowsiness and dizziness

#### 3.2 To the environment

See point 12.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. First aid measures

#### 4.1 Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

#### 4.2 Eye contact

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

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#### **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.

#### **4.5 Special resources necessary for first aid**

n.c.

### **5. Fire-fighting measures**

#### **5.1 Suitable extinguishing media**

CO2  
Extinction powder  
Foam  
Cool container at risk with water.

#### **5.2 Extinguishing media which must 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.  
Explosive vapour/air mixture

#### **5.4 Special protective equipment for fire-fighters**

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 measures**

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

#### **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.  
Take precautions against electrostatic charges.  
Wash hands before breaks and at end of work.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.

GB

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Use working methods according to operating instructions.

## 7.2. Storage

### Requirements for storage rooms and containers:

Store products only unopened, in original packing.  
 Not to be stored in gangways or stair wells.  
 Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").  
 Solvent resistant floor  
 Do not store with oxidizing agents.

### Special storage conditions:

See point 10.2  
 Store in a well ventilated place.  
 Protect from direct sunlight and warming.

## 8. Exposure controls/personal protection

GB	Chemical Name	Xylene		
	WEL-TWA:	50 ppm (220 mg/m <sup>3</sup> ) (WEL), 50 ppm (221 mg/m <sup>3</sup> ) (EC)	WEL-STEL:	100 ppm (441 mg/m <sup>3</sup> ) (WEL), 100 ppm (442 mg/m <sup>3</sup> ) (EC)
	BMGV:	650 mmol methyl hippuric acid/mol creatinine in urine, post shift (Xylene, o-, m-, p- or mixed isomers) (BMGV)		Other information: Sk (WEL)
GB	Chemical Name	Naphtha (petroleum), hydrodesulfurized heavy		
	WEL-TWA:	** 70 ppm (350 mg/m <sup>3</sup> ) (AGW)	WEL-STEL:	** 4 (AGW)
	BMGV:	---		Other information: ---
GB	Chemical Name	Liquid paraffin		
	WEL-TWA:	5 mg/m <sup>3</sup> (oil mist mineral, ACGIH)	WEL-STEL:	10 mg/m <sup>3</sup> (oil mist mineral, ACGIH)
	BMGV:	---		Other information: ---
GB	Chemical Name	Solvent naphtha (petroleum), heavy arom.		
	WEL-TWA:	** 20 ppm (100 mg/m <sup>3</sup> ) (AGW)	WEL-STEL:	** 4 (AGW)
	BMGV:	---		Other information: ---

GB 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.

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.

Respiratory protection: If OES or MEL is exceeded.

Gas mask filter A (EN 141)

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Protective Neopren 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 344, 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.

## 9. Physical and chemical properties

Physical state:	Liquid
Colour:	Light brown
Odour:	Characteristic
pH-value undiluted:	n.a.
Boiling point/range (°C):	n.av.
Melting point/range (°C):	n.av.
Flash point (°C):	39
Oxidising properties:	No
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	n.c.
Density (g/ml):	0,807 (15°C)
Solubility in water:	Insoluble
Viscosity:	< 7 mm <sup>2</sup> /s (40°C)

## 10. Stability and reactivity

### Conditions to avoid

See point 7

Stable when handled and stored correctly.

Heating, open flame, ignition sources

Electrostatic charge

### Materials to avoid

See point 7

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

### Hazardous decomposition products

See point 5.3

## 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.
Eye contact:	n.av.

### Delayed and chronic effects

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

### Further information

Classification according to calculation procedure.

The following may occur:

Effect on the central nervous system

Headaches

Dizziness

Ingestion:

Oedema of the lungs

Lung damage

With long-term contact:

Product removes fat

Dermatitis (skin inflammation)

## 12. Ecological information

Water hazard class (Germany):	3
Self classification:	Yes (VwVwS)
Persistence and degradability:	
Biodegradable *	
Behaviour in sewage plants:	
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.

Untamminated 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: 1993

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

Class/packing-group: 3/III  
 UN 1993 FLAMMABLE LIQUID, N.O.S. (NAPHTHA (PETROLEUM)) (SPECIAL PROVISION 640E)

Limited Quantities

Classification code: F1

LQ: 7

### Transport by sea

IMDG-code: 3/III (class/packing-group)

EmS: F-E, S-E

Marine Pollutant: Yes  
 FLAMMABLE LIQUID, N.O.S (NAPHTHA (PETROLEUM),ALKYL (C3-C9) BENZENE)

Limited Quantities

### Transport by air

IATA: 3/-/III (class/secondary danger/packing-group)

Flammable liquid, n.o.s (NAPHTHA (PETROLEUM))

### Additional information:

Danger code and packing code on request.



## 15. Regulatory information

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



Symbols: Xn/N

Indications of danger:

Harmful

Dangerous for the environment

R-phrases:

10 Flammable.

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.

S-phrases:

2 Keep out of the reach of children.

23.f Do not breathe vapour/spray.

24 Avoid contact with skin.

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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

VOC 1999/13/EC ~ 82% w/w

## 16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany):

3 A

Revised points:

2, 8

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

10 Flammable.

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

38 Irritating to skin.

51 Toxic to aquatic organisms.

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

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.

67 Vapours may cause drowsiness and dizziness.

52 Harmful to aquatic organisms.

## 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

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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