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ProLine Jet Clean Benzin System Reiniger K 500ML

Art.: 5152

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

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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
Iso-butanol	1 -< 5	Xi	10-37/38-41-67	201-148-0
Xylene	1 - 5	Xn/Xi	10-20/21-38	215-535-7
Naphtha (petroleum), hydrodesulfurized heavy	80 - 100	Xn/N	10-51-53-65-66-67	265-185-4
benzene, mono-C4-9-alkyl derivatives	1 - 5	Xn/N	51-53-65-67	272-258-4
alkaryl polyether amine	1 - 5		53	

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.

4.3 Skin contact

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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.g.

5. Fire-fighting measures

5.1 Suitable extinguishing media

CO₂

Extinguishing 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

Dangerous vapours heavier than air.

In case of spreading near the ground, flashback to distance sources of ignition is possible.

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.

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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

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.

Chemical Name	Iso-butanol		
WEL-TWA:	50 ppm (154 mg/m ³)	WEL-STEL:	75 ppm (231 mg/m ³)
BMGV:	---	Other information:	---
Chemical Name	Xylene		
WEL-TWA:	50 ppm (220 mg/m ³) (WEL), 50 ppm (221 mg/m ³) (EC)	WEL-STEL:	100 ppm (441 mg/m ³) (WEL), 100 ppm (442 mg/m ³) (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)
Chemical Name	Naphtha (petroleum), hydrodesulfurized heavy		
WEL-TWA:	** 70 ppm (350 mg/m ³) (AGW)	WEL-STEL:	** 4 (AGW)
BMGV:	---	Other information:	---

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AG = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BG = "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.

8.1 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)

8.2 Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Protective Neopren gloves (EN 374).

Protective hand cream recommended.

8.3 Eye protection:

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

8.4 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.v.
Melting point/range (°C):	n.v.
Flash point (°C):	40
Oxidising properties:	No
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Vapour pressure:	n.g.
Density (g/ml):	0,80 (15°C)
Solubility in water:	Insoluble
Vapour density (air = 1):	Vapours heavier than air.
Viscosity:	< 7 mm ² /s (40°C)

10. Stability and reactivity

10.1 Conditions to avoid

See point 7
 Stable when handled and stored correctly.
 Heating, open flame, ignition sources
 Electrostatic charge

10.2 Materials to avoid

See point 7
 Avoid contact with strong oxidizing agents.
 Avoid contact with strong acids.

10.3 Hazardous decomposition products

See point 5.3
 No decomposition when used as directed.

11. Toxicological information

11.1 Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	See point 15.
Inhalation, LC50 rat inhal.(mg/l/4h):	See point 15.
Skin contact, LD50 rat dermal (mg/kg):	See point 15.
Eye contact:	n.v.

11.2 Delayed and chronic effects

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

11.3. Further information

Classification according to calculation procedure.
 The following may occur:
 Ingestion:
 Oedema of the lungs
 Lung damage
 With long-term contact:
 Product removes fat
 Dermatitis (skin inflammation)

12. Ecological information

Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)

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Persistence and degradability:

Biodegradable *

Behaviour in sewage plants:

According to the recipe, contains no AOX.

Aquatic toxicity:

n.v.

Ecological toxicity:

n.v.

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: 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-C8) 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)

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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 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 k.D.v.

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 3 A

Revised points: 2

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

10 Flammable.

37/38 Irritating to respiratory system and skin.

41 Risk of serious damage to eyes.

67 Vapours may cause drowsiness and dizziness.

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.

Legend:

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

OES = Occupational exposure standard / MEL = Maximum exposure limit / BMGV = Biological monitoring guidance value

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:

Chemical Check GmbH, Beim Staumberge 3, D-32839 Steinheim, Tel.: 01805-CHEMICAL / 01805-243 642, Fax: 05233-941790

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