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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 14.03.2011 / 0005
Replaces revision of / Version: 14.02.2011 / 0004
Valid from: 14.03.2011
PDF print date: 14.03.2011
Pro-Line Diesel Ansaug System Reiniger 400 mL Art.: 5168

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

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

1.1 Product identifier

Pro-Line Diesel Ansaug System Reiniger 400 mL
Art.: 5168

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

System cleaner for vehicle fuel units (diesel engines)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone

Advisory office in case of poisoning:

Telephone number of the company in case of emergencies:

Tel.: (+49) 0731-1420-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.1.2 Classification according to Directives 67/548/EEC and 1999/45/EC (including amendments).

F+, Extremely flammable

Xi, Irritant, R41

Repr. Cat. 3, Toxic to reproduction, R63

R66

R67

2.2 Label elements

2.2.1 Labeling according to Regulation (EC) 1272/2008 (CLP)

Not determined

2.2.2 Labeling according to Directives 67/548/EEC and 1999/45/EC (including amendments).

Symbols: F+/Xn

Indications of danger:

Extremely flammable

Harmful

R-phrases:

41 Risk of serious damage to eyes.



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63 Possible risk of harm to the unborn child.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

S-phrases:

23 Do not breathe spray.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

Additions:

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.

Keep out of the reach of children.

Without adequate ventilation, formation of explosive mixtures may be possible.

1-ethylpyrrolidin-2-one

2.3 Other hazards

The mixture contains no vPvB substance (vPvB = very persistent, very bioaccumulative).

The mixture contains no PBT substance (PBT = persistent, bioaccumulative, toxic).

REGULATION (EC) No 648/2004

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substance

n.a.

3.2 Mixture

Acetone	Substance for which an EU exposure limit value applies.
Registration number (ECHA)	-
Index	606-001-00-8
EINECS, ELINCS	200-662-2
CAS	CAS 67-64-1
content %	50-80
Symbol	F/Xi
R-phrases	11-36-66-67
Classification categories / Indications of danger	Highly flammable, Irritant
Hazard class/Hazard category	Hazard statement
Flam. Liq./2	H225
Eye Irrit./2	H319
STOT SE/3	H336

1-ethylpyrrolidin-2-one	
Registration number (ECHA)	01-2119472138-36-XXXX
Index	---
EINECS, ELINCS	220-250-6
CAS	CAS 2687-91-4
content %	20-30
Symbol	Xi/Xn
R-phrases	41-63
Classification categories / Indications of danger	Irritant, Toxic to reproduction
Hazard class/Hazard category	Hazard statement
Eye Dam./1	H318
Repr./2	H361d

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Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (ECHA)	-
Index	---
EINECS, ELINCS	204-696-9
CAS	CAS 124-38-9
content %	1-5
Symbol	---
R-phrases	---
Classification categories / Indications of danger	---
Hazard class/Hazard category	Hazard statement
---	---

For the text of the R-phrases / H-phrases and classification codes (GHS/CLP), see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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.
 Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.
 Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.
 Consult medical specialist.

Ingestion

Typically no exposure pathway.
 Rinse the mouth thoroughly with water.
 Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of the respiratory tract

Coughing

Headaches

Nausea

with long-term contact:

Dermatitis (skin inflammation)

Irritation of the skin.

Effects/damages the central nervous system

Other dangerous properties cannot be ruled out.

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO2

Extinction powder

Water jet spray

Alcohol resistant foam

Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

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Oxides of carbon
Oxides of nitrogen
Toxic pyrolysis products.
Danger of bursting (explosion) when heated

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.
Prevent surface and ground-water infiltration, as well as ground penetration.
If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.
Without adequate ventilation, formation of explosive mixtures may be possible.
Active substance:
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

Ensure good ventilation.
Avoid inhalation of the vapours.
Avoid contact with eyes or skin.
Keep away from sources of ignition - Do not smoke.
Do not use on hot surfaces.
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.
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.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Do not store with flammable or self-igniting materials.
Observe special regulations for aerosols!
Store cool
Keep protected from direct sunlight and temperatures over 50°C.
Store in a well ventilated place.
Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the "Betriebssicherheitsverordnung").

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

GB

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GB	Chemical Name	Acetone	Content %:50-80
	WEL-TWA:	500 ppm (1210 mg/m ³) (WEL, EC)	WEL-STEL: 1500 ppm (3620 mg/m ³) (WEL) ---
	BMGV:	---	Other information: ---

GB	Chemical Name	Carbon dioxide	Content %:1-5
	WEL-TWA:	5000 ppm (9150 mg/m ³) (WEL), 5000 ppm (9000 mg/m ³) (EC)	WEL-STEL: 15000 ppm (27400 mg/m ³) (WEL) ---
	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.

8.2 Exposure controls

8.2.1 Appropriate engineering 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.

8.2.2 Individual protection measures, such as personal protective equipment

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.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
 Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:
 Solvent resistant protective gloves (EN 374).
 Recommended
 Safety gloves made of butyl (EN 374)
 Minimum layer thickness in mm:
 0,7
 Protective hand cream recommended.
 Permeation time (penetration time) in minutes:
 > 240 **
 ** Acetone

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

Respiratory protection:
 Normally not necessary.
 If OES or MEL is exceeded.
 Filter A2 P2 (EN 14387), code colour brown, white
 Gas mask filter AX (EN 14387), code colour brown.
 In case of emergency:
 Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)
 Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
 If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.
 In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
 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.

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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 mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Aerosol
Colour:	Colourless
Colour:	Yellow
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	~8,5
Melting point/freezing point:	~-95 °C (Acetone)
Initial boiling point and boiling range:	~-56 (Acetone)
Flash point:	-20 °C (DIN 51755 (Abel-Pensky, closed cup), Acetone)
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	2,1 Vol-% (Acetone)
Upper explosive limit:	13 Vol-% (Acetone)
Vapour pressure:	6100 hPa (20°C)
Vapour density (air = 1):	Not determined
Density:	1 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Not determined
Oxidising properties:	No

9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

See also Subsection 10.4 to 10.6.

The product has not been tested.

10.2 Chemical stability

See also Subsection 10.4 to 10.6.

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.4 to 10.6.

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7.

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

Avoid contact with strong alkalis.

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Avoid contact with strong acids.
 Amines

10.6 Hazardous decomposition products

See also Subsection 10.4 to 10.6.
 No decomposition when used as directed.

SECTION 11: Toxicological information

The product was not tested.
 Classification according to calculation procedure.

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Toxicity/effect	Endpoint t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:				---		n.d.a.
Acute toxicity, by dermal route:				---		n.d.a.
Acute toxicity, by inhalation:				---		n.d.a.
Skin corrosion/irritation:				---		n.d.a.
Serious eye damage/irritation:				---		n.d.a.
Respiratory or skin sensitisation:				---		n.d.a.
Germ cell mutagenicity:				---		n.d.a.
Carcinogenicity:				---		n.d.a.
Reproductive toxicity:				---		n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):				---		n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):				---		n.d.a.
Aspiration hazard:				---		n.d.a.
Respiratory tract irritation:				---		n.d.a.
Repeated dose toxicity:				---		n.d.a.
Symptoms:				---		n.d.a.

Acetone

Toxicity/effect	Endpoint t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3000	mg/kg	Mouse		
Acute toxicity, by oral route:	LD50	5800	mg/kg	Rat		
Acute toxicity, by oral route:	LD50	5800	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	20000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	76	mg/kg	Rat		
Skin corrosion/irritation:				---		Slightly irritant
Serious eye damage/irritation:				---		Irritant
Respiratory or skin sensitisation:				Guinea pig		Not sensitising
Germ cell mutagenicity:				---	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Symptoms:				---		unconsciousness, vomiting, headaches, mucous membrane irritation, dizziness, nausea
Symptoms:				---		unconsciousness, vomiting, headaches, gastrointestinal disturbances, fatigue, mucous membrane irritation, dizziness, nausea

1-ethylpyrrolidin-2-one

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Toxicity/effect	Endpoint t	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	~3200	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LD50	>5,1	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Risk of serious damage to eyes.
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizing
Germ cell mutagenicity:				Mouse	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Carcinogenicity:				---		Negative
Specific target organ toxicity - repeated exposure (STOT-RE):				---		No
Symptoms:				---		dizziness, unconsciousness, diarrhoea, blisters, coughing, dizziness, watering eyes, nausea and vomiting.
Teratogenicity:				---		Possible risk of harm to the unborn child.

Carbon dioxide

Toxicity/effect	Endpoint t	Value	Unit	Organism	Test method	Notes
Symptoms:				---		unconsciousness, blisters by skin-contact, vomiting, frostbite, annoyance, palpitations, itching, headaches, cramps, ear noises, dizziness

SECTION 12: Ecological information

The product was not tested.
 According to the recipe, contains no AOX.

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Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

Acetone

Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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Toxicity to fish:	LC50	96h	6500	mg/l	(Oncorhynchus mykiss)		
Toxicity to fish:	LC50	96h	5540-8300	mg/l	(Lepomis macrochirus)		
Toxicity to daphnia:	EC50	48h	12600-12700	mg/l	(Daphnia magna)		
Toxicity to algae:	IC50	8d	7500	mg/l	(Scenedesmus quadricauda)		
Toxicity to algae:	NOEC/NOEL	48h	3400	mg/l			
Persistence and degradability:		28d	91	%			
Persistence and degradability:	BOD5		1,86	g/g			84% ThOD
Bioaccumulative potential:	Log Pow		-0,24				
Bioaccumulative potential:	BCF		0,19				
Mobility in soil:							No adsorption in soil.
Toxicity to bacteria:	EC5	16h	1700	mg/l	(Pseudomonas putida)		
Toxicity to bacteria:	EC5	8d	530	mg/l	(Microcystis aeruginosa)		
Other ecotoxicological data:							Product is slightly volatile.

1-ethylpyrrolidin-2-one							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	446-999	mg/l		OECD 203 (Fish, Acute Toxicity Test)	
Persistence and degradability:		28d	90-100	%		OECD 301 A (Ready Biodegradability - DOC Die-Away Test)	
Bioaccumulative potential:	Log Pow		-0,2				Not accepted due to the log Pow - value.
Results of PBT and vPvB assessment							Not a PBT-substance, Not a vPvB-substance
Toxicity to bacteria:	EC50	16h	>1000	mg/l	(Pseudomonas putida)	DIN 38412 T.8	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

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)

16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations

Recommendation:

Do not perforate, cut up or weld uncleaned container.

Recycling

15 01 04 metallic packaging

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SECTION 14: Transport information

General statements

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name:
 UN 1950 AEROSOLS
 Transport hazard class(es): 2.1
 Packing group: -
 Classification code: 5F
 LQ (ADR 2011): 1 L
 LQ (ADR 2009): 2
 Environmental hazards: Not applicable
 Tunnel restriction code: D



Transport by sea (IMDG-code)

UN proper shipping name:
 AEROSOLS
 Transport hazard class(es): 2.1
 Packing group: -
 EmS: F-D, S-U
 Marine Pollutant: n.a.
 Environmental hazards: Not applicable



Transport by air (IATA)

UN proper shipping name:
 Aerosols, flammable
 Transport hazard class(es): 2.1
 Packing group: -
 Environmental hazards: Not applicable



Special precautions for user

Persons employed in transporting dangerous goods must be trained.
 All persons involved in transporting must observe safety regulations.
 Precautions must be taken to prevent damage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.

Additional information:

Danger code and packing code on request.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For classification and labelling see Section 2.

Observe restrictions: Yes

Observe youth employment law (German regulation).

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

Regulation (EC) No 1907/2006, Annex XVII.

VOC (1999/13/EC): 96%

15.2 Chemical safety assessment

No information available at present.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 2, 3, 15

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3).

11 Highly flammable.

36 Irritating to eyes.

41 Risk of serious damage to eyes.

63 Possible risk of harm to the unborn child.

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66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.
H361d Suspected of damaging the unborn child.
H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Flam. Liq.-Flammable liquid
Eye Irrit.-Eye irritation
STOT SE-Specific target organ toxicity - single exposure - narcotic effects
Eye Dam.-Serious eye damage
Repr.-Reproductive toxicity

Legend:

n.a. = not applicable / n.v., n.av. = not available / n.g., n.c. = not checked / k.D.v., n.d.a. = no data available
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)
VOC = Volatile organic compounds
AOX = Adsorbable organic halogen compounds
ATE = Acute Toxicity Estimates according to Regulation (EC) 1272/2008 (CLP)

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, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, +49 1805-CHEMICAL / +49 180 52 43 642, Fax: +49 5233 94 17 90, +49 180 50 50 455

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