

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 Drosselklappen-Reiniger 400ml
Art.: 5111

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

Relevant identified uses of the substance or mixture:

Cleaner

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites
SU21 - Consumer uses: Private households (=general public = consumers)
SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC13 - Fuels
PC35 - Washing and cleaning products (including solvent based products)

Process category [PROC]:

PROC 1 - Use in closed process, no likelihood of exposure.
PROC 2 - Use in closed, continuous process with occasional controlled exposure
PROC 7 - Industrial spraying
PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC11 - Non industrial spraying
PROC16 - Using material as fuel sources, limited exposure to unburned product to be expected

Article Categories [AC]:

AC99 - Not required.
Environmental Release Category [ERC]:
ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles
ERC 7 - Industrial use of substances in closed systems
ERC 8a - Wide dispersive indoor use of processing aids in open systems
ERC 8d - Wide dispersive outdoor use of processing aids in open systems
ERC 9a - Wide dispersive indoor use of substances in closed systems
ERC 9b - Wide dispersive outdoor use of substances in closed systems

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

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 28.02.2012 / 0009
Replaces revision of / Version: 27.06.2011 / 0008
Valid from: 28.02.2012
PDF print date: 15.02.2013
Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

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

R67

R66

Xn, Harmful, R20/21/22

Xi, Irritant, R36/38

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:

20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

S-phrases:

23 Do not breathe vapour.

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 Wear suitable protective clothing and gloves.

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.

Xylene (mixture of isomers)

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

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

REGULATION (EC) No 648/2004

30 % and more
aromatic hydrocarbons

BENZYL ALCOHOL

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Page 3 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

Xylene (mixture of isomers)	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	601-022-00-9
EINECS, ELINCS, NLP	215-535-7
CAS	CAS 1330-20-7
content %	30-50
Classification according to Directive 67/548/EEC	Flammable, R10 Harmful, Xn, R20/21 Irritant, Xi, R38
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 3, H226 Acute Tox. 4, H332 Acute Tox. 4, H312 Skin Irrit. 2, H315

Acetone	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	606-001-00-8
EINECS, ELINCS, NLP	200-662-2
CAS	CAS 67-64-1
content %	20-30
Classification according to Directive 67/548/EEC	Highly flammable, F, R11 Irritant, Xi, R36 R66 R67
Classification according to Regulation (EC) 1272/2008 (CLP)	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Benzyl alcohol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	603-057-00-5
EINECS, ELINCS, NLP	202-859-9
CAS	CAS 100-51-6
content %	10-20
Classification according to Directive 67/548/EEC	Harmful, Xn, R20/22
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H332 Acute Tox. 4, H302

Ethoxylated isotridecanol, 2-5 EO	Substance for which an EU exposure limit value applies.
Registration number (REACH)	--
Index	---
EINECS, ELINCS, NLP	-
CAS	CAS 9043-30-5
content %	0,1-<1
Classification according to Directive 67/548/EEC	Irritant, Xi, R41 Dangerous for the environment, N, R51 Dangerous for the environment, R53
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Dam. 1, H318 Aquatic Chronic 2, H411

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.
 Respiratory arrest - Artificial respiration apparatus necessary.

Skin contact

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

Eye contact

Page 4 of 15
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 28.02.2012 / 0009
Replaces revision of / Version: 27.06.2011 / 0008
Valid from: 28.02.2012
PDF print date: 15.02.2013
Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

Wash thoroughly for several minutes using copious water.
Consult medical specialist.
Keep Data Sheet available.

Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.
Immediate admittance to a hospital.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
The following may occur:

Irritation of the respiratory tract

Coughing

Headaches

Dizziness

Effects/damages the central nervous system

Dermatitis (skin inflammation)

Product removes fat.

Skin resorption

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

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:

Oxides of carbon

Toxic pyrolysis products.

Explosive vapour/air mixture

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

5.3 Advice for firefighters

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.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

If spray or gas escapes, ensure ample fresh air is available.

Active substance:

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

Only from a specialist.

6.4 Reference to other sections

GB

Page 5 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

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

7.1.1 General recommendations

Ensure good ventilation.
 Keep away from sources of ignition - Do not smoke.
 Take measures against electrostatic charging, if appropriate.
 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.

7.1.2 Notes on general hygiene measures at the workplace

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

Keep out of access to unauthorised individuals.
 Not to be stored in gangways or stair wells.
 Store product closed and only in original packing.
 Do not store with oxidizing agents.
 Observe special regulations for aerosols!
 Store in a well ventilated place.
 Keep protected from direct sunlight and temperatures over 50°C.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Xylene (mixture of isomers)		Content %:30-50
WEL-TWA: 50 ppm (220 mg/m ³) (WEL), 50 ppm (221 mg/m ³) (EU)	WEL-STEL: 100 ppm (441 mg/m ³) (WEL), 100 ppm (442 mg/m ³) (EU)	---	
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	Acetone		Content %:20-30
WEL-TWA: 500 ppm (1210 mg/m ³) (WEL, EU)	WEL-STEL: 1500 ppm (3620 mg/m ³) (WEL)	---	
BMGV: ---	Other information: ---		
Chemical Name	Carbon dioxide		Content %:
WEL-TWA: 5000 ppm (9150 mg/m ³) (WEL), 5000 ppm (9000 mg/m ³) (EU)	WEL-STEL: 15000 ppm (27400 mg/m ³) (WEL)	---	
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.

Acetone

Page 6 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - dermal	Long term	DNEL	186	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term	DNEL	2420	mg/m ³	
Workers / employees	Human - inhalation	Long term	DNEL	1210	mg/m ³	
Consumer	Human - oral	Long term	DNEL	62	mg/kg bw/day	
Consumer	Human - dermal	Long term	DNEL	62	mg/kg bw/day	
Consumer	Human - inhalation	Long term	DNEL	200	mg/m ³	
	Environment - marine		PNEC	1,06	mg/l	
	Environment - freshwater		PNEC	10,6	mg/l	
	Environment - sediment, freshwater		PNEC	30,4	mg/l	
	Environment - sediment, marine		PNEC	3,04	mg/l	
	Environment - soil		PNEC	0,112	mg/l	
	Environment - sewage treatment plant		PNEC	19,5	mg/l	

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:
 Safety gloves made of butyl (EN 374)
 Permeation time (penetration time) in minutes:
 > 120 (Level 4)

Skin protection - Other:
 Oil resistant protective clothing (EN 13034)

Respiratory protection:
 Normally not necessary.
 If OES or MEL is exceeded.
 Filter A (EN 14387), code colour brown

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.
 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

Page 7 of 15
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 28.02.2012 / 0009
Replaces revision of / Version: 27.06.2011 / 0008
Valid from: 28.02.2012
PDF print date: 15.02.2013
Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Aerosol, Substance: Liquid
Colour:	Yellow
Odour:	Aromatic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	65 °C
Flash point:	-12 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	1 Vol-%
Upper explosive limit:	13 Vol-%
Vapour pressure:	5000 hPa
Vapour density (air = 1):	Vapours heavier than air.
Density:	0,87 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	partially, 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 10.2 to 10.6.
The product has not been tested.

10.2 Chemical stability

See also Subsection 10.1 to 10.6.
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

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

See also section 7.
Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products

See also Subsection 10.1 to 10.5.
See also section 5.2

SECTION 11: Toxicological information

Page 8 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

Possibly more information on health effects, see Section 2.1 (classification).

Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>5000	mg/kg			calculated value
Acute toxicity, by dermal route:	ATE	2716	mg/kg			calculated value
Acute toxicity, by inhalation:	ATE	2,7	mg/l/4h			calculated value
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.
Other information:						Classification according to calculation procedure.

Xylene (mixture of isomers)						
Toxicity/effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	2840	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>1700	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	21,7	mg/l/4h	Rat		Does not conform with EU classification., References
Skin corrosion/irritation:				Rabbit		Irritant
Serious eye damage/irritation:				Rabbit		Slightly irritant
Respiratory or skin sensitisation:					(Patch-Test)	Negative
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						breathing difficulties, drying of the skin., dizziness, unconsciousness, burning of the membranes of the nose and throat, vomiting, skin afflictions, heart/circulatory disorders, coughing, headaches, drowsiness, dizziness, nausea

Acetone						
Toxicity/effect	Endpoint	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 dermal route:	LD50	20000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	32	mg/m3	Rat		
Skin corrosion/irritation:						Slightly irritant, Repeated exposure may cause skin dryness or cracking.

Page 10 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

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.
Other information:							According to the recipe, contains no AOX.

Xylene (mixture of isomers)							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	86	mg/l	Leuciscus idus		
Toxicity to fish:	LC50	96h	8,2	mg/l	Oncorhynchus mykiss		
Toxicity to daphnia:	EC50	24h	75,5	mg/l	Daphnia magna		
Toxicity to algae:	IC50	72h	10	mg/l			
Persistence and degradability:							Readily biodegradable
Bioaccumulative potential:	Log Pow		>3				
Bioaccumulative potential:	BCF		0,6-15				

Acetone							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	5540	mg/l	Oncorhynchus mykiss		
Toxicity to fish:	LC50	96h	7500	mg/l	Leuciscus idus		
Toxicity to fish:	LC50	96h	5540-8300	mg/l	Lepomis macrochirus		
Toxicity to daphnia:	EC50	48h	6100-12700	mg/l	Daphnia magna		
Toxicity to algae:	IC50	8d	7500	mg/l	Scenedesmus quadricauda		
Toxicity to algae:	EC50	96h	7500	mg/l	Selenastrum capricornutum		
Toxicity to algae:	NOEC/NOEL	48h	3400	mg/l	Pseudokirchneriella subcapitata		
Persistence and degradability:		28d	91	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	
Bioaccumulative potential:	Log Pow		-0,24				
Bioaccumulative potential:	BCF		0,19				
Mobility in soil:							No adsorption in soil.
Results of PBT and vPvB assessment:							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC5	16h	1700	mg/l	Pseudomonas putida		
Toxicity to bacteria:	EC5	8d	530	mg/l	Microcystis aeruginosa		
Other information:	AOX		0	%			
Other information:	BOD5		1900	mg/g			
Other information:	COD		2100	mg/g			

Benzyl alcohol							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes

GB

Page 11 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

Toxicity to fish:	LC50	96h	460	mg/l	Pimephales promelas		
Toxicity to fish:	LC50	96h	10	mg/l	Lepomis macrochirus		
Toxicity to daphnia:	EC50	24h	400	mg/l	Daphnia magna		
Toxicity to daphnia:	EC50	24h	55	mg/l	Daphnia magna		
Toxicity to algae:	IC50	72h	700	mg/l			
Persistence and degradability:		28d	92-96	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
Bioaccumulative potential:	Log Pow		1,1				
Toxicity to bacteria:	EC10	16h	658	mg/l	Pseudomonas putida		

Carbon dioxide							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other adverse effects:							Greenhouse effect

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

If applicable

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

15 01 04 metallic packaging

15 01 10 packaging containing residues of or contaminated by dangerous substances

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



Page 12 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

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

Freight as packaged goods rather than in bulk, therefore not applicable.
 Minimum amount regulations have not been taken into account.
 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
 Comply with trade association/occupational health regulations.
 Regulation (EC) No 1907/2006, Annex XVII
 Observe youth employment law (German regulation).
 Observe law on protection of expectant mothers (German regulation).
 Observe incident regulations.
 VOC 1999/13/EC: 805 g/l

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: 3
 The following phrases represent the posted R phrases / H phrases, Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
 10 Flammable.
 11 Highly flammable.
 20/21 Harmful by inhalation and in contact with skin.
 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
 20/22 Harmful by inhalation and if swallowed.
 36 Irritating to eyes.
 36/38 Irritating to eyes and skin.
 38 Irritating to skin.
 41 Risk of serious damage to eyes.
 51 Toxic to aquatic organisms.
 53 May cause long-term adverse effects in the aquatic environment.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H302 Harmful if swallowed.
 H312 Harmful in contact with skin.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H336 May cause drowsiness or dizziness.

Page 13 of 15
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
 Revised on / Version: 28.02.2012 / 0009
 Replaces revision of / Version: 27.06.2011 / 0008
 Valid from: 28.02.2012
 PDF print date: 15.02.2013
 Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

H411 Toxic to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid
 Acute Tox. — Acute toxicity - inhalation
 Acute Tox. — Acute toxicity - dermal
 Skin Irrit. — Skin irritation
 Eye Irrit. — Eye irritation
 STOT SE — Specific target organ toxicity - single exposure - narcotic effects
 Acute Tox. — Acute toxicity - oral
 Eye Dam. — Serious eye damage
 Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

AC Article Categories
 acc., acc. to according, according to
 ACGIH American Conference of Governmental Industrial Hygienists
 ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
 AOEL Acceptable Operator Exposure Level
 AOX Adsorbable organic halogen compounds
 approx. approximately
 Art., Art. no. Article number
 ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
 BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
 BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
 BCF Bioconcentration factor
 BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)
 BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol)
 BMGV Biological monitoring guidance value (EH40, UK)
 BOD Biochemical oxygen demand
 BSEF Bromine Science and Environmental Forum
 bw body weight
 CAS Chemical Abstracts Service
 CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques
 CIPAC Collaborative International Pesticides Analytical Council
 CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
 CMR carcinogenic, mutagenic, reproductive toxic
 COD Chemical oxygen demand
 CTFA Cosmetic, Toiletry, and Fragrance Association
 DMEL Derived Minimum Effect Level
 DNEL Derived No Effect Level
 DOC Dissolved organic carbon
 DT50 Dwell Time - 50% reduction of start concentration
 DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)
 dw dry weight
 e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
 EC European Community
 ECHA European Chemicals Agency
 EEA European Economic Area
 EEC European Economic Community
 EINECS European Inventory of Existing Commercial Chemical Substances
 ELINCS European List of Notified Chemical Substances
 EN European Norms
 EPA United States Environmental Protection Agency (United States of America)
 ERC Environmental Release Categories
 ES Exposure scenario
 etc. et cetera
 EU European Union
 EWC European Waste Catalogue
 Fax. Fax number
 gen. general

GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GWP	Global warming potential
HET-CAM	Hen's Egg Test - Chorionallantoic Membrane
HGWP	Halocarbon Global Warming Potential
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IBC (Code)	International Bulk Chemical (Code)
IC	Inhibitory concentration
IMDG-code	International Maritime Code for Dangerous Goods
incl.	including, inclusive
IUCLID	International Uniform Chemical Information Database
LC	lethal concentration
LC50	lethal concentration 50 percent kill
LCLo	lowest published lethal concentration
LD	Lethal Dose of a chemical
LD50	Lethal Dose, 50% kill
LDLo	Lethal Dose Low
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest Observed Effect Concentration
LOEL	Lowest Observed Effect Level
LQ	Limited Quantities
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
n.a.	not applicable
n.av.	not available
n.c.	not checked
n.d.a.	no data available
NIOSH	National Institute of Occupational Safety and Health (United States of America)
NOAEC	No Observed Adverse Effective Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
NOEL	No Observed Effect Level
ODP	Ozone Depletion Potential
OECD	Organisation for Economic Co-operation and Development
org.	organic
PAH	polycyclic aromatic hydrocarbon
PBT	persistent, bioaccumulative and toxic
PC	Chemical product category
PE	Polyethylene
PNEC	Predicted No Effect Concentration
POCP	Photochemical ozone creation potential
ppm	parts per million
PROC	Process category
PTFE	Polytetrafluorethylene
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No.	9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID	Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure Activity Relationship
SU	Sector of use
SVHC	Substances of Very High Concern
Tel.	Telephone
ThOD	Theoretical oxygen demand
TOC	Total organic carbon
TRGS	Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)
VbF	Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))
VOC	Volatile organic compounds
vPvB	very persistent and very bioaccumulative
WEL-TWA, WEL-STEL	WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).
WHO	World Health Organization

Page 15 of 15
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revised on / Version: 28.02.2012 / 0009
Replaces revision of / Version: 27.06.2011 / 0008
Valid from: 28.02.2012
PDF print date: 15.02.2013
Pro-Line Drosselklappen-Reiniger 400ml Art.: 5111

wwt wet weight

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, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax:
+49 5233 94 17 90**

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.