

LogiLink Schaumreiniger TFT/LCD RP0012

Revision date: 11.03.2019

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Aerosol - Washing and cleaning products

SURFACE CLEANERS (liquid, powder, gel neat, spray neat) for consumer use

1.3. Details of the supplier of the safety data sheet

Company name: 2direct GmbH

Street: Langenstück 5 / Industriegebiet Golsberg

Place: D-58579 Schalksmühle

Telephone: +49 2351 66887-0

Telefax: +49 2351 66887-29

e-mail: info@2direct.de

1.4. Emergency telephone

+49 2351 66887-0

number:

Only available during office hours.

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

2.2. Label elements**Regulation (EC) No. 1272/2008**

Signal word: Danger

Pictograms:

**Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
106-97-8	Butane			5 - < 10 %
	203-448-7		01-2119474691-32	
	Flam. Gas 1, Liquefied gas; H220 H280			
74-98-6	Propane			2.5 - < 5 %
	200-827-9		01-2119486944-21	
	Flam. Gas 1, Liquefied gas; H220 H280			
1336-21-6	ammonia 25 %			< 0.1 %
	215-647-6		01-2119488876-14	
	Skin Corr. 1B, STOT SE 3, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 2; H314 H335 H400 H411			

Full text of H and EUH statements: see section 16.

Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % aliphatic hydrocarbons, < 5 % anionic surfactants, perfumes.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove casualty to fresh air and keep warm and at rest. If medical advice is needed, have product container or label at hand.

After inhalation

Provide fresh air. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

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5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.

6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Do not pierce or burn, even after use.

Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Further information on handling

Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.

Protect against: Frost

7.3. Specific end use(s)

Aerosol - Washing and cleaning products

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
1336-21-6	ammonia 25 %			
Worker DNEL, acute	dermal	systemic	6,8 mg/kg bw/day	
Worker DNEL, long-term	dermal	systemic	6,8 mg/kg bw/day	
Worker DNEL, acute	inhalation	systemic	47,6 mg/m³	
Worker DNEL, acute	inhalation	local	36 mg/m³	
Worker DNEL, long-term	inhalation	systemic	47,6 mg/m³	
Worker DNEL, long-term	inhalation	local	14 mg/m³	
Consumer DNEL, acute	dermal	systemic	68 mg/kg bw/day	
Consumer DNEL, long-term	dermal	systemic	68 mg/kg bw/day	
Consumer DNEL, acute	inhalation	systemic	23,8 mg/m³	
Consumer DNEL, acute	inhalation	local	7,2 mg/m³	
Consumer DNEL, long-term	inhalation	systemic	23,8 mg/m³	
Consumer DNEL, long-term	inhalation	local	2,8 mg/m³	
Consumer DNEL, acute	oral	systemic	6,8 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	6,8 mg/kg bw/day	

PNEC values

CAS No	Substance	Value
1336-21-6	ammonia 25 %	
Freshwater		0,0011 mg/l
Marine water		0,0011 mg/l

8.2. Exposure controls**Protective and hygiene measures**

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection

Wear eye protection/face protection. Suitable eye protection: goggles. DIN EN 166

Hand protection

Wash hands thoroughly after handling.

Apply skin care products after work.

Skin protection

No special measures are necessary.

Respiratory protection

Usually no personal respiratory protection necessary.

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SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	opaque
Odour:	like: Lemon

pH-Value (at 20 °C):

Test method
8 - 9 Data apply to the technically active substance.

Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	< -20 °C
Flash point:	< -20 °C

Flammability

Solid:	not applicable
Gas:	not applicable

Explosive properties

In use may form flammable/explosive vapour-air mixture.

Lower explosion limits:	5 vol. %
Upper explosion limits:	9,4 vol. %
Ignition temperature:	not determined

Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
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Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)	not determined
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Vapour pressure: (at 50 °C)	not determined
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Density (at 20 °C):	0,918 g/cm³
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Water solubility: (at 20 °C)	easily soluble
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Solubility in other solvents

not determined

Partition coefficient:	not determined
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Viscosity / kinematic:	not applicable
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Vapour density:	not determined
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Evaporation rate:	not determined
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9.2. Other information

Solid content:	not determined
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SECTION 10: Stability and reactivity**10.1. Reactivity**

Extremely flammable aerosol.

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10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1336-21-6	ammonia 25 %				
	oral	LD50 mg/kg	750	Rat	

Irritation and corrosivity

Based on available data, the classification criteria are not met.

Sensitising effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information**12.1. Toxicity**

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
106-97-8	Butane					
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l	16,47	96 h	Green algae	United States Environmental Protection A Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	46,6	48 h	Daphnid no other information.	United States Environmental Protection A Calculation using ECOSAR Program v1.00
74-98-6	Propane					
	Acute fish toxicity	LC50 mg/l	49,9	96 h	Fish, no other information	United States Environmental Protection A The Ecosar class program has been develo
	Acute algae toxicity	ErC50 mg/l	16,47	96 h	Green algae	United States Environmental Protection A Calculation using ECOSAR Program v1.00.
	Acute crustacea toxicity	EC50 mg/l	69,43	48 h	Daphnia sp.	USEPA OPPT Risk Assessment Division (200 Calculation using ECOSAR Program v1.00.
1336-21-6	ammonia 25 %					
	Acute fish toxicity	LC50 mg/l	0,53	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	24 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
1336-21-6	ammonia 25 %			
	Biodegradation	<70 %	28	
	Not readily biodegradable (according to OECD criteria)			

12.3. Bioaccumulative potential

The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
106-97-8	Butane	1,09
74-98-6	Propane	1,09
1336-21-6	ammonia 25 %	-0,64

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

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Further information

Avoid release to the environment.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0
Transport category: 2
Tunnel restriction code: D

Inland waterways transport (ADN)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
Hazard label: 2.1



Classification code: 5F
Special Provisions: 190 327 344 625
Limited quantity: 1 L
Excepted quantity: E0

Marine transport (IMDG)

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1

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14.4. Packing group:

-

Hazard label:

2.1



Special Provisions:

63, 190, 277, 327, 344, 959

Limited quantity:

1000 mL

Excepted quantity:

E0

EmS:

F-D, S-U

Air transport (ICAO-TI/IATA-DGR)**14.1. UN number:**

UN 1950

14.2. UN proper shipping name:

AEROSOLS, flammable

14.3. Transport hazard class(es):

2.1

14.4. Packing group:

-

Hazard label:

2.1



Special Provisions:

A145 A167 A802

Limited quantity Passenger:

30 kg G

Passenger LQ:

Y203

Excepted quantity:

E0

IATA-packing instructions - Passenger:

203

IATA-max. quantity - Passenger:

75 kg

IATA-packing instructions - Cargo:

203

IATA-max. quantity - Cargo:

150 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Flammable gases.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): 10,4% (95,42 g/l)

2004/42/EC (VOC): 10,4 % (95,42g/l)

Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

Additional information

Regulation (EC) No. 648/2004 (Detergents regulation).

Aerosol directive (75/324/EEC).

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 1 - slightly water contaminating

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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 12.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data

Relevant H and EUH statements (number and full text)

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)