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Revision date / version: 01.11.2021 / 0014

Replacing version dated / version: 29.04.2021 / 0013

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STAINLESS STEEL CLEANER 400 ML

Art.: 9027396

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

1.1 Product identifier

STAINLESS STEEL CLEANER 400 ML

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

Relevant identified uses of the substance or mixture:

Cleaning agent for stainless steel surfaces.

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

BTI Befestigungstechnik GmbH & Co. KG

Salzstr. 51

74653 Ingelfingen Tel.: +49 7940 141 141 Fax: +49 7940 141 9141 Email: info@bti.de Homepage: www.bti.de

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (BRC)

+1 872 5888271 (BRC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard class	Hazard category	Hazard statement
Eye Irrit.	2	H319-Causes serious eye irritation.
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.
STOT SE	3	H336-May cause drowsiness or dizziness.
Aerosol	1	H222-Extremely flammable aerosol.
Aerosol	1	H229-Pressurised container: May burst if heated.





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2.2 Label elements

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



H319-Causes serious eye irritation. H336-May cause drowsiness or dizziness. H222-Extremely flammable aerosol. H229-Pressurised container: May burst if heated.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. 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. P261-Avoid breathing vapours or spray. P271-Use only outdoors or in a well-ventilated area.

P312-Call a POISON CENTRE / doctor if you feel unwell.

P405-Store locked up. P410+P412-Protect from sunlight. Do not expose to temperatures exceeding 50 $^{\circ}$ C.

P501-Dispose of contents / container to an approved waste disposal facility.

EUH066-Repeated exposure may cause skin dryness or cracking.

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

Propan-2-ol

Acetone

White mineral oil (Natural oil)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

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 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 < 0.1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

Dangerous vapours heavier than air.

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

SECTION 3: Composition/information on ingredients

Aerosol

3.1 Substances

n.a.

3.2 Mixtures

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics





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Registration number (REACH)	01-2119457273-39-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	918-481-9
CAS	(64742-48-9)
content %	30-50
Classification according to Regulation (EC) 1272/2008	EUH066
(CLP), M-factors	Asp. Tox. 1, H304

Propan-2-ol	
Registration number (REACH)	01-2119457558-25-XXXX
Index	603-117-00-0
EINECS, ELINCS, NLP, REACH-IT List-No.	200-661-7
CAS	67-63-0
content %	10-20
Classification according to Regulation (EC) 1272/2008	Flam. Liq. 2, H225
(CLP), M-factors	Eye Irrit. 2, H319
	STOT SE 3, H336

Acetone	Substance for which an EU exposure limit		
	value applies.		
Registration number (REACH)	01-2119471330-49-XXXX		
Index	606-001-00-8		
EINECS, ELINCS, NLP, REACH-IT List-No.	200-662-2		
CAS	67-64-1		
content %	1-10		
Classification according to Regulation (EC) 1272/2008	EUH066		
(CLP), M-factors	Flam. Liq. 2, H225		
	Eye Irrit. 2, H319		
	STOT SE 3, H336		

White mineral oil (Natural oil)	
Registration number (REACH)	01-2119487078-27-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	232-455-8
CAS	8042-47-5
content %	1-<10
Classification according to Regulation (EC) 1272/2008	Asp. Tox. 1, H304
(CLP), M-factors	

Isotridecanol, ethoxylated	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	931-138-8
CAS	69011-36-5
content %	1-<3
Classification according to Regulation (EC) 1272/2008	Eye Dam. 1, H318
(CLP), M-factors	Aquatic Chronic 3, H412
Specific Concentration Limits and ATE	Eye Dam. 1, H318: >10 %
	Eye Irrit. 2, H319: >1-10 %

(Z)-N-methyl-N-(I	l-oxo-9-octadecenyl)glycine





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Registration number (REACH)	
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	203-749-3
CAS	110-25-8
content %	0,1-<0,25
Classification according to Regulation (EC) 1272/2008	Acute Tox. 4, H332
(CLP), M-factors	Skin Irrit. 2, H315
	Eye Dam. 1, H318
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 1, H410 (M=1)

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

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account. If, for example, the note P is applied for a hydrocarbon then this has already been taken into account for the classification named here.

Quote: "Note P - The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)."

Article 4 of the regulation (EC) no. 1272/2008 (CLP regulation) was also observed and taken into account for the classification named here.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

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. Seek medical help if necessary.

Ingestion

Typically no exposure pathway.

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

Danger of aspiration.

In case of vomiting, keep head low so that the stomach content does not reach the lungs.

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:

Drying of the skin.

Dermatitis (skin inflammation)





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Irritation of the skin.

At high concentrations:

Irritation of the respiratory tract

Coughing Dizziness

Headaches

Effect on the central nervous system

Coordination disorders

Unconsciousness

Ingestion of large quantities:

Headaches

Nausea

Vomiting

Danger of aspiration.

Oedema of the lungs

Chemical pneumonitis (condition similar to pneumonia)

Other dangerous properties cannot be ruled out.

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

Dry extinguisher

Water jet spray

Alcohol resistant foam

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 gases

Danger of bursting (explosion) when heated

Explosive vapour/air or gas/air mixtures.

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures





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6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

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

Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous.

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

7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Keep away from sources of ignition - Do not smoke.

Take measures against electrostatic charging, if appropriate.

Do not use on hot surfaces.

Avoid contact with eyes or skin.

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.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

Observe special regulations for aerosols!





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Observe special storage conditions.

Observe special storage conditions.

Keep protected from direct sunlight and temperatures over 50°C.

Store in a well ventilated place.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40):

800 mg/m3

Chemical Name		Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics			Content %:30-50	
W	EL-TWA:	800 mg/m3		WEL-STEL:		
Monitoring procedures: - Draeger - Hydrocarbons 0,1%/c (81 03 571)						
	- Draeger - Hydrocarbons 2/a (81 03 581)					
	- Compur - KITA-187 S (551 174)					
BN	MGV:				Other information:	(OEL acc. to
					RCP-method, para	graphs 84-87, EH40)

				RC1 -inctilou, par	agraphs	0 4 -07, L11 4 0)
Chemical Name Propan-2		Propan-2-ol				Content %:10-20
WEL-TWA:	400 ppm (999	9 mg/m3)	WEL-STEL:	500 ppm (1250 mg/m3)		
Monitoring pr	rocedures:	-	Draeger - Alcohol	25/a i-Propanol (81 01 631))	
		-	Compur - KITA-1	22 SA(C) (549 277)		
		-	Compur - KITA-1	50 U (550 382)		
			DFG (D) (Loesun	gsmittelgemische), DFG (E)	(Solven	t mixtures 6) -
			2013, 2002 - EU p	project BC/CEN/ENTR/000/	2002-16	card 66-3
			(2004)	•		
			NIOSH 1400 (ALCOHOLS I) - 1994			
			NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS			
			(SCREENING)) - 1996			
- Draeger - Alcohol 100/a (CH 29 701)						
BMGV:				Other information	1:	

Chemical Name	Acetone		Content %:1-
Chemical Name	rectone		10
WEL-TWA: 500 ppm (121	0 mg/m3)	WEL-STEL: 1500 ppm (3620 mg/m3)	
(WEL, EU)		(WEL)	
Monitoring procedures:	=	Draeger - Acetone 100/b (CH 22 901)	
	-	Draeger - Acetone 40/a (5) (81 03 381)	
- Compur - KITA-102 SA (548 534)			
	- Compur - KITA-102 SC (548 550)		
	- Compur - KITA-102 SD (551 109)		
INSHT MTA/MA-031/A96 (Determination of ketones (acetone,			
	methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube		
method / Gas chromatography) - 1996 - EU project			
	-	BC/CEN/ENTR/000/2002-16 card 67-1 (2004)	-





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MDHS 72 (Volatile organic compounds in air – Laboratory me using pumped solid sorbent tubes, thermal desorption and gas - chromatography) - 1993 - NIOSH 1300 (KETONES I) - 1994 NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS - (SCREENING)) - 1996 - NIOSH 2555 (KETONES I) - 2003 NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016			and gas		
- EXTRACTIVE FTIR SPECTROMETRY) - 2016 - OSHA 69 (Acetone) - 1988					
BMGV:		() , , , , , , , , , , , , , , , , , ,	Other information	:	
©B Chemical Name	Oil mist, mine	eral			Content %:
WEL-TWA: 5 mg/m3 (Mine excluding metal working fluit		WEL-STEL:			

	, , ,				
Monitoring procedures:	-	Draeger - Oil Mist 1/a (67	33 031)		
BMGV:			Other information	:	
© Chemical Name	Propane				Content %:
WEL-TWA: 1000 ppm (A0	CGIH)	WEL-STEL:			
Monitoring procedures:	-	Compur - KITA-125 SA ((549 954)		
	-	OSHA PV2077 (Propane)) - 1990		
BMCV:			Other information	·	

© Chemical Name	Butane		Content %:
WEL-TWA: 600 ppm (145	50 mg/m3)	WEL-STEL: 750 ppm (1810 mg/m3)	-
Monitoring procedures:	-	Compur - KITA-221 SA (549 459)	
	-	OSHA PV2010 (n-Butane) - 1993	
BMGV:		Other information:	-

® Chemical Name	Isobutane			Content %:
WEL-TWA: 1000 ppm (E.	X) (ACGIH)	WEL-STEL:		
Monitoring procedures:	-	Compur - KITA-113 SB(C)	(549 368)	
BMGV:			Other information:	

Propan-2-ol	Propan-2-ol									
Area of application	Exposure route /	Effect on health	Descript	Value	Unit	Note				
	Environmental		or							
	compartment									
	Environment -		PNEC	140,9	mg/l					
	freshwater									
	Environment - marine		PNEC	140,9	mg/l					
	Environment -		PNEC	552	mg/kg					
	sediment, freshwater				dw					
	Environment -		PNEC	552	mg/kg					
	sediment, marine				dw					
	Environment - soil		PNEC	28	mg/kg					
					dw					
	Environment -		PNEC	2251	mg/l					
	sewage treatment									
	plant									



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	Environment - water, sporadic (intermittent) release		PNEC	140,9	mg/l	
	Environment - oral (animal feed)		PNEC	160	mg/kg feed	
Consumer	Human - dermal	Long term, systemic effects	DNEL	319	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	89	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	26	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	888	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	500	mg/m3	

Acetone						
Area of application	Exposure route / Environmental compartment	Effect on health	Descript or	Value	Unit	Note
	Environment - marine		PNEC	1,06	mg/l	Assesme nt factor 500
	Environment - freshwater		PNEC	10,6	mg/l	Assesme nt factor 50
	Environment - sediment, freshwater		PNEC	30,4	mg/kg dw	
	Environment - sediment, marine		PNEC	3,04	mg/kg dw	
	Environment - soil		PNEC	29,5	mg/kg dw	
	Environment - sewage treatment plant		PNEC	19,5	mg/l	
	Environment - sporadic (intermittent) release		PNEC	21	mg/l	Assesme nt factor 100
Consumer	Human - oral	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesme nt factor 2
Consumer	Human - dermal	Long term, systemic effects	DNEL	62	mg/kg bw/day	Overall assesme nt factor 20
Consumer	Human - inhalation	Long term, systemic effects	DNEL	200	mg/m3	Overall assesme nt factor 5





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Workers / employees	Human - dermal	Long term, systemic effects	DNEL	186	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	2420	mg/m3	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1210	mg/m3	

White mineral oil (Natural oil)									
Area of application	Exposure route / Environmental compartment	Environmental or		Value	Unit	Note			
Consumer	Human - dermal	Long term, systemic effects	DNEL	92	mg/kg bw/day				
Consumer	Human - inhalation	Long term, systemic effects	DNEL	35	mg/m3				
Consumer	Human - oral	Long term, systemic effects	DNEL	40	mg/kg bw/day				
Workers / employees	Human - inhalation	Long term, local effects	DNEL	160	mg/m3				
Workers / employees	Human - dermal	Long term, local effects	DNEL	220	mg/kg				
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	220	mg/kg bw/day				
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	160	mg/m3				

- WEL-TWA = Workplace Exposure Limit Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit Short-term exposure limit (15-minute reference period).
- $(8) = Inhalable\ fraction\ (2017/164/EU,\ 2017/2398/EU).\ (9) = Respirable\ fraction\ (2017/164/EU,\ 2017/2398/EU).$ $(10) = Short\text{-term}\ exposure\ limit\ value\ in\ relation\ to\ a\ reference\ period\ of\ 1\ minute\ (2017/164/EU).\ |\ BMGV=Biological\ monitoring\ guidance\ value\ EH40.\ BGW="Biologischer\ Grenzwert"\ (biological\ limit\ value,\ Germany)\ |\ Other\ information:\ Sen=Capable\ of\ causing\ occupational\ asthma.\ Sk=Can\ be\ absorbed\ through\ skin.\ Carc=Capable\ of\ causing\ cancer\ and/or\ heritable\ genetic\ damage.$
- ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
- (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

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.





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Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. EN 14042.

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

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:

Chemical resistant protective gloves (EN ISO 374).

Recommended

Protective nitrile gloves (EN ISO 374).

Minimum layer thickness in mm:

0.4

Permeation time (penetration time) in minutes:

> 480

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

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

At high concentrations:

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

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

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.





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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. Active substance: liquid.

Colour: Colourless
Odour: Characteristic

Melting point/freezing point: There is no information available on this parameter.

Boiling point or initial boiling point and boiling range: n

Flammability: Does not apply to aerosols.

Lower explosion limit:0,6 Vol-%Upper explosion limit:12 Vol-%Flash point:-60 °CAuto-ignition temperature:240 °C

Decomposition temperature: There is no information available on this parameter.

pH: Mixture is non-soluble (in water). Kinematic viscosity: Does not apply to aerosols.

Solubility: Insoluble

Partition coefficient n-octanol/water (log value): Does not apply to mixtures.

Vapour pressure: 2800 hPa
Density and/or relative density: 0,7 g/ml

Relative vapour density:

Particle characteristics:

Does not apply to aerosols.

Does not apply to aerosols.

9.2 Other information

Explosives: Product is not explosive. Possible build up of

explosive/highly flammable vapour/air mixture.

Oxidising liquids:

Solvents content: 87,61 % (Directive 2010/75/EU (VOC))

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

Pressure increase will result in danger of bursting.

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.





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10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

STAINLESS STEEL CI	STAINLESS STEEL CLEANER 400 ML						
Art.: 9027396							
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes	
-	nt						
Acute toxicity, by oral						n.d.a.	
route:							
Acute toxicity, by						n.d.a.	
dermal route:							
Acute toxicity, by						n.d.a.	
inhalation:							
Skin corrosion/irritation:						n.d.a.	
Serious eye						n.d.a.	
damage/irritation:							
Respiratory or skin						n.d.a.	
sensitisation:							
Germ cell mutagenicity:						n.d.a.	
Carcinogenicity:						n.d.a.	
Reproductive toxicity:						n.d.a.	
Specific target organ						n.d.a.	
toxicity - single							
exposure (STOT-SE):							
Specific target organ						n.d.a.	
toxicity - repeated							
exposure (STOT-RE):							
Aspiration hazard:						n.d.a.	
Symptoms:						n.d.a.	

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>5000	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>2000	mg/kg	Rat	OECD 402 (Acute			
dermal route:					Dermal Toxicity)			
Acute toxicity, by	LC50	>5000	mg/m3/	Rat	OECD 403 (Acute	Vapours		
inhalation:			8h		Inhalation	_		
					Toxicity)			
Acute toxicity, by	LC50	>5	mg/m3/	Rat	OECD 403 (Acute	Vapours,		
inhalation:			4h		Inhalation	Analogous		
					Toxicity)	conclusion		





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Skin corrosion/irritation:						Repeated exposure
						may cause
						skin dryness
						or cracking.,
						Product
						removes fat.
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant,
					Dermal	Analogous
					Irritation/Corrosio	conclusion
					n)	
Serious eye					OECD 405 (Acute	Not irritant
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474	Negative,
					(Mammalian	Analogous
					Erythrocyte	conclusion
					Micronucleus	
					Test)	
Carcinogenicity:					OECD 453	Negative,
					(Combined	Analogous
					Chronic	conclusion
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:					OECD 421	Negative,
					(Reproduction/Dev	Analogous
					elopmental	conclusion
					Toxicity	
D 1	NOAFG	5220	/ 2	7	Screening Test)	X
Reproductive toxicity:	NOAEC	>= 5220	mg/m3	Rat	OECD 414	Negative,
					(Prenatal	Analogous
					Developmental	conclusionin
C .c. +					Toxicity Study)	halation
Specific target organ					OECD 408	No indications
toxicity - repeated					(Repeated Dose	indications of such an
exposure (STOT-RE):					90-Day Oral	
					Toxicity Study in Rodents)	effect.,
					Rouellis)	Analogous conclusion
Aspiration hazard:						Yes
Aspiration nazard:						168





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Symptoms:			unconsciousn
			ess,
			headaches,
			dizziness,
			Dermatitis
			(skin
			inflammation
),
			Reddening,
			drying of the
			skin.,
			mucous
			membrane
			irritation,
			nausea and
			vomiting.,
			diarrhoea,
			lower
			abdominal
			pain

Propan-2-ol						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral	LD50	4570-5840	mg/kg	Rat	OECD 401 (Acute	
route:					Oral Toxicity)	
Acute toxicity, by	LD50	12800-	mg/kg	Rabbit	OECD 402 (Acute	
dermal route:		13900			Dermal Toxicity)	
Acute toxicity, by	LC50	> 25	mg/l/6h	Rat	OECD 403 (Acute	Vapours
inhalation:					Inhalation	
					Toxicity)	
Acute toxicity, by	LC50	46600	mg/l/4h	Rat		Aerosol
inhalation:						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Eye Irrit. 2
damage/irritation:					Eye	
					Irritation/Corrosio	
					n)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Germ cell mutagenicity:				Mouse	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	





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Germ cell mutagenicity:					OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	(Ames-Test)	Negative
Carcinogenicity:						Negative
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336
Specific target organ toxicity - repeated exposure (STOT-RE):						Target organ(s): liver
Aspiration hazard:						No
Symptoms:						breathing difficulties, unconsciousn ess, vomiting, headaches, fatigue, dizziness, nausea, eyes, reddened, watering eyes
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	5000	ppm	Rat		Vapours (OECD 451)

Acetone								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	5800	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LD50	>15800	mg/kg	Rat				
dermal route:								
Acute toxicity, by	LC50	76	mg/l/4h	Rat				
inhalation:								





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Skin corrosion/irritation:				Guinea pig		Repeated exposure may cause skin dryness
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosio	or cracking., Not irritant Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	n) OECD 406 (Skin Sensitisation)	Not sensitizising
Germ cell mutagenicity:				Mouse	OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Germ cell mutagenicity:				Mammalia n	OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Reproductive toxicity (Developmental toxicity):				Rat	OECD 414 (Prenatal Developmental Toxicity Study)	Negative
Symptoms:						unconsciousn ess, vomiting, headaches, gastrointestin al disturbances, fatigue, mucous membrane irritation, dizziness, nausea, drowsiness
Specific target organ toxicity - repeated exposure (STOT-RE), oral:	NOAEL	900	mg/kg bw/d	Rat	OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	

White mineral oil (Natural oil)								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							





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Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
	I D50	> 2000	/1	Rabbit		
Acute toxicity, by	LD50	>2000	mg/kg	Kabbit	OECD 402 (Acute	
dermal route:	1.050	_	7./41	ъ.	Dermal Toxicity)	
Acute toxicity, by	LC50	>5	mg/l/4h	Rat	OECD 403 (Acute	
inhalation:					Inhalation	
					Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosio	
					n)	
Serious eye				Rabbit	OECD 405 (Acute	Not irritant
damage/irritation:					Eye	- , - ,
damage, mitation.					Irritation/Corrosio	
					n)	
D : t 1-:				Carinana	,	NI - (-1-:
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin
sensitisation:					Sensitisation)	contact)
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Carcinogenicity:	NOAEL	>1200	mg/kg	Rat	OECD 453	Negative
					(Combined	
					Chronic	
					Toxicity/Carcinoge	
					nicity Studies)	
Reproductive toxicity:					OECD 415 (One-	Negative
Reproductive toxicity.					Generation	Negative
					Reproduction	
					Toxicity Study)	
Reproductive toxicity:	NOAEL	>=1000	mg/kg	Rat	OECD 421	Negative
			bw/d		(Reproduction/Dev	
					elopmental	
					Toxicity	
					Screening Test)	
Specific target organ	NOAEL	>1200	mg/kg	Rat	OECD 453	
	NOALL					
	NOALL	7 1200			(Combined	
toxicity - repeated	NOALL	7 1200		1	(Combined Chronic	
	NOALL	71200		1100	Chronic	
toxicity - repeated	NOALL	71200			Chronic Toxicity/Carcinoge	
toxicity - repeated exposure (STOT-RE):					Chronic Toxicity/Carcinoge nicity Studies)	
toxicity - repeated exposure (STOT-RE): Specific target organ	NOAEL	>1200	mg/kg		Chronic Toxicity/Carcinoge nicity Studies) OECD 452	
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated					Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity	
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE):					Chronic Toxicity/Carcinoge nicity Studies) OECD 452	A
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard:					Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity	Asp. Tox. 1
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE):					Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity	nausea and
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms:	NOAEL	>1200			Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity Studies)	
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms: Specific target organ				Rat	Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity	nausea and
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms:	NOAEL	>1200	mg/kg		Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity Studies)	nausea and
toxicity - repeated exposure (STOT-RE): Specific target organ toxicity - repeated exposure (STOT-RE): Aspiration hazard: Symptoms: Specific target organ	NOAEL	>1200	mg/kg		Chronic Toxicity/Carcinoge nicity Studies) OECD 452 (Chronic Toxicity Studies) OECD 411	nausea and





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Specific target organ	NOAEL	1000	mg/kg	Rabbit	OECD 410
toxicity - repeated					(Repeated Dose
exposure (STOT-RE),					Dermal Toxicity -
dermal:					90-Day)

Isotridecanol, ethoxylate	ed					
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral	nt LD50	>2000	mg/kg	Rat		Analogous
route:						conclusion
Acute toxicity, by	LD50	>2000	mg/kg	Rabbit		Analogous
dermal route:				D 111		conclusion
Skin corrosion/irritation:				Rabbit		Not irritant,
						Analogous
				5 111		conclusion
Serious eye				Rabbit		Eye Dam.
damage/irritation:						1>10%
						solution
Respiratory or skin				Guinea pig		Not
sensitisation:						sensitizising
Germ cell mutagenicity:						Negative,
						Analogous
						conclusion
Carcinogenicity:						Negative,
						Analogous
						conclusion
Reproductive toxicity:	NOAEL	50	mg/kg	Rat		
			bw/d			
Reproductive toxicity:	NOAEL	>250	mg/kg	Rat		Analogous
			bw/d			conclusion
Specific target organ	NOAEL	50	mg/kg	Rat		Target
toxicity - repeated			bw/d			organ(s):
exposure (STOT-RE):						heart, Target
						organ(s):
						liver, Target
						organ(s):
						kidneys,
						Analogous
						conclusion

(Z)-N-methyl-N-(1-oxo-9-octadecenyl)glycine								
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral	LD50	>2000	mg/kg	Rat	OECD 401 (Acute			
route:					Oral Toxicity)			
Acute toxicity, by	LC50	1,37	mg/l/4h	Rat		Aerosol,		
inhalation:						References		
Skin corrosion/irritation:					OECD 404 (Acute	Irritant		
					Dermal			
					Irritation/Corrosio			
					n)			





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Serious eye			OECD 405 (Acute	Intensively
damage/irritation:			Eye	irritant
			Irritation/Corrosio	
			n)	
Respiratory or skin				Not
sensitisation:				sensitizising
Symptoms:				respiratory
				distress,
				diarrhoea,
				cornea
				opacity,
				mucous
				membrane
				irritation

Propane	Propane							
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat				
Acute toxicity, by inhalation:	LC50	260000	ppmV/ 4h	Rat		Gasses, Male, Analogous conclusion		
Skin corrosion/irritation:						Not irritant		
Serious eye damage/irritation:						Not irritant		
Germ cell mutagenicity:					OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative		
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative		
Reproductive toxicity (Developmental toxicity):	NOAEC	21,641	mg/l		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)			
Aspiration hazard:						No		





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Symptoms:						breathing difficulties, unconsciousn ess, frostbite, headaches, cramps, mucous membrane irritation, dizziness, nausea and vomiting.
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	7,214	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	LOAEL	21,641	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Dev elopm. Tox. Screening Test)	

Butane						
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by	LC50	658	mg/l/4h	Rat		
inhalation:						
Germ cell mutagenicity:				Salmonella	OECD 471	Negative
				typhimuri	(Bacterial Reverse	
				um	Mutation Test)	
Germ cell mutagenicity:					OECD 473 (In	Negative
					Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Human	OECD 473 (In	Negative
				being	Vitro Mammalian	
					Chromosome	
					Aberration Test)	
Germ cell mutagenicity:				Rat	OECD 474	Negative
					(Mammalian	
					Erythrocyte	
					Micronucleus	
					Test)	





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Aspiration hazard:						No
Symptoms:						ataxia,
						breathing
						difficulties,
						drowsiness,
						unconsciousn
						ess,
						frostbite,
						disturbed
						heart
						rhythm,
						headaches,
						cramps,
						intoxication,
						dizziness,
						nausea and
						vomiting.
Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422	
toxicity - repeated					(Combined	
exposure (STOT-RE),					Repeated Dose	
inhalat.:					Tox. Study with	
					the	
					Reproduction/Dev	
					elopm. Tox.	
					Screening Test)	

Isobutane						
Toxicity / effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by inhalation:	LC50	658	mg/l/4h	Rat		
Acute toxicity, by inhalation:	LC50	260000	ppmV/ 4h	Rat		Gasses, Male
Serious eye damage/irritation:				Rabbit		Not irritant
Germ cell mutagenicity:				Salmonella typhimuri um	OECD 471 (Bacterial Reverse Mutation Test)	Negative
Aspiration hazard:						No
Symptoms:						unconsciousr ess, frostbite, headaches, cramps, dizziness, nausea and vomiting.





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Specific target organ	NOAEL	21,394	mg/l	Rat	OECD 422
toxicity - repeated					(Combined
exposure (STOT-RE),					Repeated Dose
inhalat.:					Tox. Study with
					the
					Reproduction/Dev
					elopm. Tox.
					Screening Test)

11.2. Information on other hazards

STAINLESS STEEL CLEANER 400 ML									
Art.: 9027396									
Toxicity / effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Endocrine disrupting						Does not			
properties:						apply to			
						mixtures.			
Other information:						No other			
						relevant			
						information			
						available on			
						adverse			
						effects on			
						health.			

SECTION 12: Ecological information

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

STAINLESS STEEL CLEANER 400 ML									
Art.: 9027396									
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes		
12.1. Toxicity to							n.d.a.		
fish:									
12.1. Toxicity to							n.d.a.		
daphnia:									
12.1. Toxicity to							n.d.a.		
algae:									





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10.0 D			TD1
12.2. Persistence			The
and degradability:			surfactant(s)
			contained in
			this mixture
			complies(co
			mply) with
			the
			biodegradabi
			lity criteria
			as laid down
			in
			Regulation
			(EC)
			No.648/2004
			on
			detergents.
			Data to
			support this
			assertion are
			held at the
			disposal of
			the
			competent
			authorities
			of the
			Member
			States and
			will be made
			available to
			them, at
			their direct
			request or at
			the request
			of a
			detergent
			manufacturer
			manuracturel
12.3.			n.d.a.
Bioaccumulative			11.U.a.
potential:			1
12.4. Mobility in			n.d.a.
soil:			_
12.5. Results of			n.d.a.
PBT and vPvB			
assessment			
12.6. Endocrine			Does not
disrupting			apply to
properties:			mixtures.
Lioberras.		 I	





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12.7. Other			No
adverse effects:			information
			available on
			other
			adverse
			effects on
			the
			environment.
Other information:			According
			to the recipe,
			contains no
			AOX.

Hydrocarbons, C1	0-C13, n-alka	nes, isoa	lkanes, c	yclics, <2	% aromatics		
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>1000	mg/l	Oncorhynchus	OECD 203	
fish:				_	mykiss	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOELR	28d	0,10	mg/l	Oncorhynchus	QSAR	
fish:					mykiss		
12.1. Toxicity to	EC50	48h	>1000	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOELR	21d	0,18	mg/l	Daphnia	QSAR	
daphnia:					magna		
12.1. Toxicity to	ErL50	72h	>1000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.1. Toxicity to	NOELR	72h	1000	mg/l	Pseudokirchne	OECD 201	
algae:					riella	(Alga,	
					subcapitata	Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	80	%		OECD 301 F	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity -	
						Manometric	
						Respirometry	
						Test)	
12.3.	Log Pow		5,5-				
Bioaccumulative			7,2				
potential:							
12.4. Mobility in	Log Koc		>3				
soil:							





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12.5. Results of PBT and vPvB assessment			No PBT substance, No vPvB substance
12.7. Other adverse effects:			Product floats on the
			water surface.
Water solubility:	~10	mg/l	Slight

Propan-2-ol							~~ .
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.	BCF		3,2				Low
Bioaccumulative							
potential:							
12.1. Toxicity to	LC50	96h	>100	mg/l	Leuciscus idus		
fish:							
12.1. Toxicity to	LC50	96h	1400	mg/l	Lepomis		
fish:					macrochirus		
12.1. Toxicity to	EC50	48h	2285	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	16d	141	mg/l	Daphnia		
daphnia:					magna		
12.1. Toxicity to	EC50	72h	>100	mg/l	Desmodesmus		
algae:					subspicatus		
12.2. Persistence		21d	95	%		OECD 301 E	Readily
and degradability:						(Ready	biodegradab
•						Biodegradabil	e
						ity - Modified	
						OECD	
						Screening	
						Test)	
12.2. Persistence			99,9	%		OECD 303 A	Readily
and degradability:						(Simulation	biodegradabl
<i>c</i> ,						Test -	e
						Aerobic	
						Sewage	
						Treatment -	
						Activated	
						Sludge Units)	
12.3.	Log Pow		0,05			OECD 107	Slight
Bioaccumulative	20510"		0,05			(Partition	2116111
potential:						Coefficient (n-	
Potentiui.						octanol/water)	
						- Shake	
						Flask Method)	
12.4. Mobility in	Koc		1,1			Transition (Expert
soil:			-,-				judgement





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12.5. Results of						No PBT
PBT and vPvB						substance,
assessment						No vPvB
						substance
Toxicity to	EC50		>1000	mg/l	activated	
bacteria:					sludge	
Toxicity to	EC10	16h	1050	mg/l	Pseudomonas	
bacteria:					putida	
Other information:	ThOD		2,4	g/g		
Other information:	BOD5		53	%		
Other information:	COD		96	%		References
Other information:	COD		2,4	g/g		
Other information:	BOD		1171	mg/g		

Acetone							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Other organisms:	EC5	72h	28	mg/l	Entosiphon sulcatum		
10.1 m : : : :	EGEO	0.61	0200	/1			
12.1. Toxicity to	EC50	96h	8300	mg/l	Lepomis		
fish:	1.050	0.61	0200	/1	macrochirus		
12.1. Toxicity to	LC50	96h	8300	mg/l	Lepomis		
fish:	1.050	0.61	5540	/1	macrochirus		
12.1. Toxicity to	LC50	96h	5540	mg/l	Oncorhynchus		
fish:					mykiss		
12.1. Toxicity to	LC50	96h	7500	mg/l	Leuciscus idus		
fish:							
12.1. Toxicity to	EC50	48h	6100-	mg/l	Daphnia		
daphnia:			12700		magna		
12.1. Toxicity to	EC50	48h	8800	mg/l	Daphnia pulex	OECD 202	
daphnia:						(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	NOEC/NO	28d	2212	mg/l	Daphnia pulex	OECD 211	
daphnia:	EL					(Daphnia	
						magna	
						Reproduction	
						Test)	
12.1. Toxicity to	NOEC/NO	8d	530	mg/l		DIN 38412	Test
algae:	EL					T.9	organism:
C							M.
							aeruginosa
12.1. Toxicity to	EC50	48h	4740	mg/l	Pseudokirchne		<u> </u>
algae:		-			riella		
<i>5</i>					subcapitata		
12.1. Toxicity to	NOEC/NO	48h	3400	mg/l	Pseudokirchne		
algae:	EL		2.00		riella		
					subcapitata		





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12.2. Persistence		28d	91	%		OECD 301 A	Readily
and degradability:						(Ready Biodegradabil ity - DOC	biodegradabl e
						Die-Away Test)	
12.2. Persistence and degradability:		28d	91	%		OECD 301 B (Ready	Readily biodegradabl
						Biodegradabil ity - Co2 Evolution	e
12.2. Persistence		30d	81-92	%		Test) Regulation	Readily
and degradability:		300	01)2	/0		(EC)	biodegradabl
,						440/2008 C.4-	e
						Е	
						(DETERMIN	
						ATION OF	
						'READY'	
						BIODEGRAD ABILITY -	
						CLOSED	
						BOTTLE	
						TEST)	
12.3.	Log Pow		-0,24			OECD 107	
Bioaccumulative						(Partition	
potential:						Coefficient (n-	
						octanol/water)	
						- Shake Flask Method)	
12.3.	BCF		0,19			riask ivieulou)	Low
Bioaccumulative potential:	Bei		0,17				Low
12.4. Mobility in							No
soil:							adsorption in soil.
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
Toxicity to	EC10	30min	1000	mg/l	activated	OECD 209	substance
bacteria:	LCIU	John	1000	IIIg/I	sludge	(Activated	
					510050	Sludge,	
						Respiration	
						Inhibition	
						Test (Carbon	
						and	
						Ammonium Ovidation))	
Toxicity to	BOD/COD	16h	1700	mg/l	Pseudomonas	Oxidation))	
bacteria:	DOD/COD	1011	1700	1115/1	putida		





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Other information:	BOD5	1760- 1900	mg/g		
Other information:	AOX	0	%		
Other information:	COD	2070	mg/g		

White mineral oil (Natural oil)						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:		28d	>60	%		OECD 301 B (Ready Biodegradabil ity - Co2 Evolution Test)	Biodegradabl e
12.7. Other adverse effects:						Testy	Product floats on the water surface.
12.1. Toxicity to daphnia:	EL50	21d	>1000	mg/l	Daphnia magna		
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Leuciscus idus	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to fish:	NOEC/NO EL	96h	>1000	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EL50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to daphnia:	LC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisatio n Test)	
12.1. Toxicity to algae:	EL50	48h	>1000	mg/l	Pseudokirchne riella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	31,3	%		OECD 301 F (Ready Biodegradabil ity - Manometric Respirometry Test)	Not readily biodegradabl e
Toxicity to bacteria:	LC50		>1000	mg/l	activated sludge		
Toxicity to bacteria:	NOELR		>100	mg/l	Pseudomonas subspicata		





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Isotridecanol, etho	xylated						
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	>1-10	mg/l	Cyprinus	OECD 203	
fish:					caprio	(Fish, Acute	
						Toxicity Test)	
12.1. Toxicity to	NOEC/NO	21d	1,36	mg/l	Daphnia	QSAR	
daphnia:	EL				magna		
12.1. Toxicity to	EC50	48h	>1-10	mg/l	Daphnia	OECD 202	
daphnia:					magna	(Daphnia sp.	
						Acute	
						Immobilisatio	
						n Test)	
12.1. Toxicity to	EC50	72h	>1-10	mg/l	Desmodesmus	OECD 201	
algae:					subspicatus	(Alga,	
						Growth	
						Inhibition	
						Test)	
12.2. Persistence		28d	>60	%		OECD 301 B	Readily
and degradability:						(Ready	biodegradabl
						Biodegradabil	e
						ity - Co2	
						Evolution	
						Test)	
12.3.							Not to be
Bioaccumulative							expected
potential:							
Toxicity to	EC50		>140	mg/l	Pseudomonas	ISO 10712	
bacteria:			100-		putida		
Toxicity to	LC50	14d	>1000	mg/kg	Eisenia	OECD 207	
annelids:					foetida	(Earthworm,	
						Acute	
						Toxicity	
						Tests)	

(Z)-N-methyl-N-(1-	oxo-9-octade	cenyl)gly	cine				
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	1-10	mg/l	Leuciscus idus	OECD 203	
fish:						(Fish, Acute	
						Toxicity Test)	
12.2. Persistence		28d	64	%		OECD 302 B	
and degradability:						(Inherent	
						Biodegradabil	
						ity - Zahn-	
						Wellens/EMP	
						A Test)	
Other information:	DOC		700	mg/g			
Other information:	COD		2110-	mg/g			
			2400				
Other information:	BOD5		1430	mg/g			

Propane





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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3.	Log Pow		2,28				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Butane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to	LC50	96h	24,11	mg/l		QSAR	
fish:							
12.1. Toxicity to	LC50	48h	14,22	mg/l		QSAR	
daphnia:							
12.3.	Log Pow		2,98				A notable
Bioaccumulative							biological
potential:							accumulation
							potential is
							not to be
							expected
							(LogPow 1-
							3).
12.5. Results of							No PBT
PBT and vPvB							substance,
assessment							No vPvB
							substance

Isobutane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:	-						A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.1. Toxicity to fish:	LC50	96h	27,98	mg/l			
12.1. Toxicity to algae:	EC50	96h	7,71	mg/l			
12.2. Persistence and degradability:							Readily biodegradabl e





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12.5. Results of				No PBT
PBT and vPvB				substance,
assessment				No vPvB
				substance

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. (2014/955/EU)

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

20 01 29 detergents containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Take full aerosol cans to problem waste collection.

Take emptied aerosol cans to valuable material collection.

For contaminated packing material

Pay attention to local and national official regulations.

15 01 04 metallic packaging

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

Do not perforate, cut up or weld uncleaned container.

SECTION 14: Transport information

General statements

14.1. UN number or ID number: 1950

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:

UN 1950 AEROSOLS

14.3. Transport hazard class(es):
14.4. Packing group:
Classification code:
LQ:

5F

14.5. Environmental hazards: Not applicable

Tunnel restriction code: D

Transport by sea (IMDG-code)

14.2. UN proper shipping name:

AEROSOLS

14.3. Transport hazard class(es): 2.1 14.4. Packing group: -

EmS: F-D, S-U n.a

14.5. Environmental hazards: Not applicable

Transport by air (IATA)









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14.2. UN proper shipping name:

Aerosols, flammable

14.3. Transport hazard class(es): 2.1 14.4. Packing group: -

14.5. Environmental hazards: Not applicable

14.6. 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.

14.7. Maritime transport in bulk according to IMO instruments

Freighted 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.

Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148.

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

	1 37	0 110 1	0 110 1
Hazard categories	Notes to Annex I	Qualifying quantity	Qualifying quantity
		(tonnes) of dangerous	(tonnes) of dangerous
		substances as referred to	substances as referred to
		in Article 3(10) for the	in Article 3(10) for the
		application of - Lower-	application of - Upper-
		tier requirements	tier requirements
P3a	11.1	150 (netto)	500 (netto)

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 2 - This product contains the substances listed below:

Directive 2012/16/12	Directive 2012/16/EO (Seveso III), Allilex 1, 1 att 2 - 11lls product contains the substances listed below.										
Entry Nr	Dangerous	Notes to Annex I	Qualifying quantity	Qualifying quantity							
	substances		(tonnes) for the	(tonnes) for the							
			application of -	application of -							
			Lower-tier	Upper-tier							
			requirements	requirements							







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18	Liquefied	19	50	200
	flammable gases,			
	Category 1 or 2			
	(including LPG)			
	and natural gas			

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

88 %

Directive 2010/75/EU (VOC):

REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons less than 5 % non-ionic surfactants

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

1-16

Employee training in handling dangerous goods is required.

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC)	Evaluation method used	
No. 1272/2008 (CLP)		
Eye Irrit. 2, H319	Classification according to calculation procedure.	
Asp. Tox. 1, H304	Classification according to calculation procedure.	
STOT SE 3, H336	Classification according to calculation procedure.	
Aerosol 1, H222	Classification according to calculation procedure.	
Aerosol 1, H229	Classification based on the form or physical state.	

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.



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Eye Irrit. — Eye irritation

Asp. Tox. — Aspiration hazard

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Aerosol — Aerosols

Flam. Liq. — Flammable liquid Eye Dam. — Serious eye damage

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Acute Tox. — Acute toxicity - inhalation

Skin Irrit. — Skin irritation

Aquatic Acute — Hazardous to the aquatic environment - acute

Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU)

2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

ATE Acute Toxicity Estimate

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

BSEF The International Bromine Council

bw body weight

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level



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DOC Dissolved organic carbon

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)

EC European Community

ECHA European Chemicals Agency

ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect

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)

ErCx, $E\mu$ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae,

plants)

etc. et cetera

EU European Union

EVAL Ethylene-vinyl alcohol copolymer

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Koc Adsorption coefficient of organic carbon in the soil

Kow octanol-water partition coefficient

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

IUPACInternational Union for Pure Applied Chemistry

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)

Log Koc Logarithm of adsorption coefficient of organic carbon in the soil

Log Kow, Log Pow Logarithm of octanol-water partition coefficient

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicablen.av. not availablen.c. not checkedn.d.a. no data available

NIOSH National Institute for Occupational Safety and Health (USA)

NLP No-longer-Polymer

NOEC, NOEL No Observed Effect Concentration/Level

OECD Organisation for Economic Co-operation and Development

org. organic

OSHA Occupational Safety and Health Administration (USA)

PBT persistent, bioaccumulative and toxic

PE Polyethylene

PNEC Predicted No Effect Concentration

ppm parts per million PVC Polyvinylchloride





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

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STAINLESS STEEL CLEANER 400 ML

Art.: 9027396

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)

SVHC Substances of Very High Concern

Tel. Telephone

TOC Total organic carbon

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

wwt 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.