

Page 1 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 27.11.2024 / 0031 Replacing version dated / version: 04.03.2024 / 0030 Valid from: 27.11.2024 PDF print date: 27.11.2024 GUNTEC Waffenpflegespray

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

1.1 Product identifier

GUNTEC Waffenpflegespray

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

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH Jerg-Wieland-Str. 4 89081 Ulm-Lehr Tel.: (+49) 0731-1420-0 Fax: (+49) 0731-1420-88

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:

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Landspitali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR)

+1 872 5888271 (LMR)

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					
Skin Irrit.	2	H315-Causes skin irritation.					
Asp. Tox.	1	H304-May be fatal if swallowed and enters airways.					
STOT SE	3	H336-May cause drowsiness or dizziness.					
Aquatic Chronic	2	H411-Toxic to aquatic life with long lasting effects.					
Aerosol	1	H222-Extremely flammable aerosol.					
Aerosol	1	H229-Pressurised container: May burst if heated.					

2.2 Label elements

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



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H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H411-Toxic to aquatic life with long lasting effects. 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. P280-Wear protective gloves.

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 °C.

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

EUH208-Contains Di-iso-octyl amino methyl tolutriazole, Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide, Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts, Benzene, mono-C10-14-alkyl derivs., fractionation bottoms, intermediate cut, sulfonated, sodium salts. May produce an allergic reaction.

Without adequate ventilation, formation of explosive mixtures may be possible. Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Distillates (petroleum), hydrotreated light naphthenic

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 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a. **? ? Mixtures**

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	
Registration number (REACH)	01-2119475514-35-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	921-024-6
CAS	
content %	25-<50
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Flam. Liq. 2, H225
	Skin Irrit. 2, H315
	STOT SE 3, H336
	Asp. Tox. 1, H304
	Aquatic Chronic 2, H411
Distillates (petroleum), hydrotreated light naphthenic	
Registration number (REACH)	01-2119480375-34-XXXX
Index	649-466-00-2
EINECS, ELINCS, NLP, REACH-IT List-No.	265-156-6
CAS	64742-53-6



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content %	1-<10
	Asp. Tox. 1, H304
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Азр. тох. т, проч
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	
Registration number (REACH)	01-2119978241-36-XXXX
Index	01-2119970241-30-2222
EINECS, ELINCS, NLP, REACH-IT List-No.	939-603-7
	939-003-7
CAS content %	1-<10
	-
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317 Skin Sens. 1B, H317: >=10 %
Specific Concentration Limits and ATE	SKIII SEIIS. ID, H317. >=10 %
Pensona mana C10.14 alkul dariya, fractionation bettoma	
Benzene, mono-C10-14-alkyl derivs., fractionation bottoms,	
intermediate cut, sulfonated, sodium salts Registration number (REACH)	01-2119985162-35-XXXX
EINECS, ELINCS, NLP, REACH-IT List-No.	285-597-8
CAS	85117-47-1
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Sens. 1B, H317
Description was described of 0.5 dimension (s. 4.0.4 (bis discuss) and the solution of (
Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with	
1-octanethiol and hydrogen peroxide	
Registration number (REACH)	01-2120792779-28-XXXX
EINECS, ELINCS, NLP, REACH-IT List-No.	948-020-7
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Acute Tox. 4, H332
	Skin Irrit. 2, H315
	Skin Sens. 1, H317
Creatilia Concentration Limits and ATE	Aquatic Chronic 4, H413 ATE (as inhalation, Vapours): 11 mg/l/4h
Specific Concentration Limits and ATE	
	ATE (as inhalation, Dusts or mist): 3,08 mg/l/4h
Di-iso-octyl amino methyl tolutriazole	
Registration number (REACH)	01-2119982395-25-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	939-700-4
CAS	
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Skin Irrit. 2, H315
	Skin Hitt, 2, 11313 Skin Sens. 1B, H317
	Aquatic Acute 1, H400 (M=1)
	Aquatic Chronic 2, H411
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	
Registration number (REACH)	01-2119491299-23-XXXX
Index	
EINECS, ELINCS, NLP, REACH-IT List-No.	270-128-1
CAS	68411-46-1
content %	0,1-<1
Classification according to Regulation (EC) 1272/2008 (CLP), M-factors	Repr. 2, H361f
Glassification according to regulation (EC) 121212000 (CLP), M-Tactors	Aquatic Chronic 3, H412

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.

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.

The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.



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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.

Skin contact

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

Danger of aspiration.

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

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. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. headaches dizziness Coordination disorders mental confusion reddening of the skin Dermatitis (skin inflammation) nausea vomiting Danger of aspiration. oedema of the lungs Chemical pneumonitis (condition similar to pneumonia) **4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher **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 Oxides of sulphur Hydrocarbons 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.



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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

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.

Avoid inhalation, and 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 from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

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

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. Not to be stored in gangways or stair wells. Observe special regulations for aerosols! Observe special storage conditions. Do not store with flammable or self-igniting materials. Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place. Store cool.

7.3 Specific end use(s)

No information available at present. Observe the instructions for good working practice and the recommendations for risk assessment.



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Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries, depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

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): 600 mg/m3

Chemical Name		7, n-alkanes, isoalkanes, cyclic	s, <5% n-hexa	ine		
WEL-TWA: 600 mg/m3		WEL-STEL:				
Monitoring procedures:	- Co	mpur - KITA-187 S (551 174)				
BMGV:			Other inform	(DEL acc. to R(40)	CP-method,
				,	/	
Chemical Name WEL-TWA: 1000 ppm (ACG)	Hydrocarbons, C3-4	WEL-STEL: 1250 ppm (2180) ma/m2) (Liqu	ofied		
		petroleum gas (LPG))) mg/ms) (∟iqu	eneu		
Monitoring procedures: BMGV:			Other infor	mation:		
BIVIGV			Other mon	nation	-	
Chemical Name	Oil mist, mineral					
WEL-TWA: 5 mg/m3 (Miner working fluids, ACGIH)	al oil, excluding metal	WEL-STEL:				
Monitoring procedures:	- Dra	aeger - Oil Mist 1/a (67 33 031)				
BMGV:			Other infor	mation:	-	
Hydrocarbons, C6-C7, n-alk		5% n-hexane				
Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
Consumer	Human - dermal	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	608	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	699	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	773	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic	DNEL	300	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2035	mg/m3	
Distillates (petroleum), hydr						
Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
Consumer	compartment Human - oral	Long term, systemic	DNEL	0,74	mg/kg	
		effects			bw/day	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5,6	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	2,7	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	5,4	mg/m3	

Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts



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Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note	
	Environmental						
	compartment						
	Environment - freshwater		PNEC	0,1	mg/l		
	Environment - marine		PNEC	0,1	mg/l		
	Environment - sediment,		PNEC	45211	mg/kg		
	freshwater						
	Environment - sediment,		PNEC	45211	mg/kg		
	marine						
	Environment - water,		PNEC	1	mg/l		
	sporadic (intermittent)						
	release						
	Environment - sewage		PNEC	1000	mg/l		
	treatment plant		-		J. J.		
	Environment - soil		PNEC	36739,7	mg/kg		
				4			
Consumer	Human - inhalation	Long term, systemic	DNEL	8,7	mg/m3		
		effects		0,1			
Consumer	Human - dermal	Long term, systemic	DNEL	12,5	mg/kg		
		effects		,.	body		
		Sheete			weight/day		
Consumer	Human - oral	Long term, systemic	DNEL	2,5	mg/kg		
Consumer		effects	DITEL	2,0	body		
		enecis			weight/day		
Workers / employees	Human - inhalation	Long term, systemic	DNEL	35,26	mg/m3		
workers / employees		effects	DINEL	35,20	ing/ins		
Markara (amployace	Human - dermal	0.10010	DNEL	25	malka		
Workers / employees	numan - dermai	Long term, systemic	DINEL	25	mg/kg		
		effects			body		
	<u> </u>				weight/day		
Workers / employees	Human - dermal	Short term, local	DNEL	1,04	mg/cm2		
		effects					

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment Environment - freshwater		PNEC	1	mg/l	
	Environment - marine		PNEC	1	mg/m3	
	Environment - sediment, freshwater		PNEC	7235000 00	mg/kg dw	
	Environment - sediment, marine		PNEC	7235000 00	mg/kg dw	
	Environment - soil		PNEC	8687000 00	mg/kg dw	
	Environment - sewage treatment plant		PNEC	100	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	10	mg/l	
	Environment - oral (animal feed)		PNEC	16,667	mg/kg feed	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,833	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,667	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,33	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	3,33	mg/kg bw/d	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,66	mg/m3	



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Di-iso-octyl amino methyl tolutriazole Area of application Exposure route / Effect on health Descriptor Value Unit Note Environmental compartment Environment - freshwater PNEC 0,00097 mg/l 6 PNEC Environment - marine 0,00009 mg/l 8 Environment - sporadic PNEC 0,00976 mg/l (intermittent) release PNEC Environment - sewage 0,69 mg/l treatment plant Environment - sediment, PNEC 0,0121 mg/kg freshwater Environment - sediment, PNEC 0,00121 mg/kg marine mg/kg Environment - soil PNEC 0.00184 Consumer Human - oral Long term, systemic DNEL 0,2 mg/kg bw/day effects Human - dermal DNEL Consumer Long term, systemic 0,2 mg/kg effects bw/day Consumer Human - inhalation Long term, systemic DNEL 0.3 mg/m3 effects Workers / employees Human - inhalation Long term, systemic DNEL 1,3 mg/m3 effects Workers / employees Human - dermal Long term, systemic DNEL 0.4 mg/kg bw/day effects

Area of application	Exposure route / Environmental	Effect on health	Descriptor	Value	Unit	Note
	compartment					
	Environment - freshwater		PNEC	0.0012	mg/l	
	Environment - marine		PNEC	0.00012	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,51	mg/l	
	Environment - sediment, freshwater		PNEC	0,0246	mg/kg	
	Environment - sediment, marine		PNEC	0,00246	mg/kg	
	Environment - soil		PNEC	0,0193	mg/kg	
	Environment - sewage treatment plant		PNEC	0,187	mg/l	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,04	mg/kg	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,14	mg/m3	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,04	mg/kg bw/day	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,08	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	0,31	mg/m3	

Inited Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). | | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).



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(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU: (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |

| BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).

(EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |

| Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

(EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:(13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible.

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.

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:

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With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN ISO 374). If applicable Protective Neoprene® / polychloroprene gloves (EN ISO 374). Protective nitrile gloves (EN ISO 374). Minimum layer thickness in mm: 0,5 Permeation time (penetration time) in minutes: 480 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.

Protective hand cream recommended.

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.



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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

No information available at present.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Aerosol. Active substance: liquid.
Colour:	Beige, Opaque
Odour:	Characteristic
Melting point/freezing point:	There is no information available on this parameter.
Boiling point or initial boiling point and boiling range:	There is no information available on this parameter.
Flammability:	Does not apply to aerosols.
Lower explosion limit:	There is no information available on this parameter.
Upper explosion limit:	There is no information available on this parameter.
Flash point:	Does not apply to aerosols.
Auto-ignition temperature:	Does not apply to aerosols.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	<5 mm2/s (40°C, Active substance)
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,804 g/cm3 (20°C, Active substance)
Relative vapour density:	Does not apply to aerosols.
Particle characteristics:	Does not apply to aerosols.
9.2 Other information	
Explosives:	Product is not explosive. Possible build up of explosive/highly

Oxidising liquids:

SECTION 10: Stability and reactivity

No

flammable vapour/air mixture.

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. **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).

GUNTEC wattenptiegespray						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.



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Safety data sheet according to Re		No 1907/2006, A	nnex II (last a	mended by Regul	lation (EU) 2020/878)	
Revision date / version: 27.11.20	24 / 0031					
Replacing version dated / versior	n: 04.03.2024 /	0030				
Valid from: 27.11.2024						
PDF print date: 27.11.2024						
GUNTEC Waffenpflegespray						
	1	1		1		
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation: Skin corrosion/irritation:						n.d.a. n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						n.a.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
Hydrocarbons, C6-C7, n-alkane	e jeoolkons-	ovelies -E%	hovano			
Toxicity / effect	Endpoint	, cyclics, <5% n- Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5840	mg/kg	Rat	OECD 401 (Acute Oral	Notes
Acute toxicity, by oral route.	LDJU	2040	ing/kg	Παι	Toxicity)	
Acute toxicity, by dermal route:	LD50	>2800-3100	mg/kg	Rat	OECD 402 (Acute	
reate textery; by definal reate.	2200	2000 0100	ing/kg		Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>20	mg/l/4h	Rat	OECD 403 (Acute	Vapours
					Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute	Skin Irrit. 2
					Dermal	
					Irritation/Corrosion)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye	Mild irritant
					Irritation/Corrosion)	(Analogous
						conclusion)
Respiratory or skin				Guinea pig	OECD 406 (Skin	No (skin contact)
sensitisation: Germ cell mutagenicity:					Sensitisation) OECD 471 (Bacterial	Analogous
Gerni cell Indiagenicity.					Reverse Mutation Test)	conclusion,
					Reverse Mutation rest)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:					OECD 414 (Prenatal	Analogous
					Developmental Toxicity	conclusion,
					Study)	Negative
Specific target organ toxicity -						May cause
single exposure (STOT-SE):						drowsiness or
						dizziness.,
						STOT SE 3,
						H336
Aspiration hazard:						Yes
Symptoms:						drowsiness,
						unconsciousness
						, heart/circulatory
						disorders,
						headaches,
						cramps,
						drowsiness,
						mucous
						membrane
						irritation,
						dizziness,
						nausea and
L						vomiting.
Distillates (petroleum) hydrotr	eated light na	ohthenic				
Distillates (petroleum), hydrotro Toxicity / effect		phthenic Value	Unit	Organism	Test method	Notes
Toxicity / effect Acute toxicity, by oral route:	eated light na Endpoint LD50		Unit mg/kg	Organism Rat	Test method OECD 401 (Acute Oral	Notes



Vapours

s., fractiona ndpoint D50 D50	tion bottoms, in Value >5000 >5000	itermediate Unit mg/kg mg/kg	typhimurium cut, sulfonated, s Organism Rat Rat Rabbit Rabbit	odium salts Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute Dermal Toxicity) OECD 405 (Acute Eye	Notes Not irritantEPA OPPTS 870.2500 Not irritant
ndpoint D50	Value >5000	Unit mg/kg	cut, sulfonated, s Organism Rat Rat	Test method OECD 401 (Acute Oral Toxicity) OECD 402 (Acute	
ndpoint D50	Value >5000	Unit mg/kg	cut, sulfonated, s Organism Rat	Test method OECD 401 (Acute Oral Toxicity)	Notes
ndpoint	Value	Unit	cut, sulfonated, s Organism	Test method	Notes
			cut, sulfonated, s		Notes
			typnimurium		
			to us be transmitteness		- 5
			Salmonella	Lymph Node Assay) (Ames-Test)	contact)
			Mouse	OECD 429 (Skin	Yes (skin
			Rabbit	OECD 405 (Acute Eye	Not irritant
			Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
250	>1,9	111g/1/411	Kal		Aerosol, Maximum achievable concentration., Analogous conclusion
				Dermal Toxicity)	Aarooal
		5 5		Toxicity)	
ndpoint	Value	Unit	Organism	Test method	Notes
kyl derivs.,	calcium salts				
					Yes
OAEL	100			Test)	No indications of such an effect.
				OECD 421 (Reproduction/Developm ental Toxicity Screening	Negative Negative
				OECD 471 (Bacterial Reverse Mutation Test)	Negative
			Guinea pig	Sensitisation)	Not sensitizising
				Irritation/Corrosion)	Not irritant
			Rabbit	Dermal Irritation/Corrosion)	Not irritant
C50	>5,53	mg/l/4h	Rat	Inhalation Toxicity)	Aerosol, Analogous conclusion
D50	>5000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
	OAEL kyl derivs.,	D50 >5000 D50 >5,53 D50 >5,53 D50 > D50 >	D50 >5000 mg/kg C50 >5,53 mg/l/4h Image: Second secon	D50 >5000 mg/kg Rabbit C50 >5,53 mg/l/4h Rat Image: Image	D50 >5000 mg/kg Rabbit OECD 402 (Acute Dermal Toxicity) D50 >5,53 mg/l/4h Rat OECD 403 (Acute Inhalation Toxicity) D50 >5,53 mg/l/4h Rat OECD 404 (Acute Dermal Irritation/Corrosion) Rabbit OECD 405 (Acute Eye Irritation/Corrosion) Rabbit OECD 406 (Skin Sensitisation) Guinea pig OECD 406 (Skin Sensitisation) OECD 406 (Skin Sensitisation) OECD 401 (Bacterial Reverse Mutation Test) OECD 401 (Bacterial Reverse Mutation Test) OAEL 100 OECD 401 (Acute Oral Toxicity Screening Test) D50 >5000 mg/kg Rat OECD 402 (Acute Dermal Toxicity) D50 >2000 mg/kg Rat OECD 402 (Acute Dermal Toxicity) D50 >1.9 mg/l/4h Rat OECD 402 (Acute Dermal Toxicity) D50 >1.9 mg/l/4h Rat OECD 402 (Acute Dermal Toxicity) D50 >1.9 mg/l/4h Rat OECD 404 (Acute Dermal Toxicity) D50 >1.9 mg/l/4h Rat OECD 402 (Acute Dermal Toxicity) D50 >1.9 mg/l/4h Rat OECD 402 (Acute Dermal Irritation/Corrosion) Mouse OECD 402 (Acute Eye Irritation/Corrosion) Mouse OECD 402 (Acute Dermal Irritation/Corrosion)

mg/l/4h

ATE

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Acute toxicity, by inhalation:



Page 13 of 23 Safety data short according to Regulation (EC) No 1907/2006, Annox II (last amended by Regulation (EU) 2020/878) Revision data / vision: C3 1, 2024 / 0030 Description (EC) 2020/878) PDF pint data: / vision: C3 1, 2024 / 0030 Anno. 0.3, 2024 / 0030 Description (EC) 2020/878) PDF pint data: / vision: C3 1, 2024 / 0030 Call of Call (Call EC) (C	- (FB)						
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GUNTEC Wattenpt@gespray Acute toxicity, by inhaliation ATE 3.08 mg/l/4 Rabbit CECD 406 (Acute Eye Instance Procession Pro							
Acute toxicity, by inhalation: ATE 3.08 mg/l/4h Cell 405 (Acute Eye Instantant) Respiratory or skin sensitisation: Image Instantant Guinea pig OECD 405 (Acute Eye Instantant) Skin Sans. 1, transmission Germ cell mutagenicity: Image Instantant Image Instantant Germ Cell Mutagenicity: Negative Germ cell mutagenicity: Image Instantant Image Instantant Negative Negative Symptoms: Image Instantant Image Instantant Negative Negative DH-so-octyl amine methyl tolutrazele Image Instantant Negative Negative DH-so-octyl amine methyl tolutrazele Image Instantant Negative Negative Toxicity / effect Endpoint Value Unit OECD 400 (Rvine Oral Notes Acute toxicity, by dermal route: LD50 3313 mg/kg Ret OECD 401 (Acute Oral Notes Skin corrosion/irritation: Image Instantant Germ cell mutagenicity: Not Instant Omage Instantant Not Instant Serious eye damage/irritation: Image Instantant Germ cell mutagenicity: Not Instant Omage Instantant Omage Instantant Germ cell mutagenicity: Image Instantant Germ cell mutagenicity: Not Instant Omage Instantant Omag							
Serious eye damage/initiation: Rabbit CECD 406 (Acute Symphonic Symph	GUNTEC Waffenpflegespray						
Serious eye damage/initiation: Rabbit CECD 406 (Acute Symphonic Symph							
Respiratory or skin sensitisation: Imitation/Corresol) Skin Sens. 1, Yes (skin Sensitisation) Germ cell mutagenicity: Imitation/Corresol/ Sensitisation Skin Sens. 1, Yes (skin Correctly and the sensitisation) Skin Sens. 1, Yes (skin Correctly and the sensitisation) Skin Sens. 1, Yes (skin Correctly and the sensitisation) Notes Germ cell mutagenicity: Imitation/Corresol/ Symptoms: Salmonella OECD 471 (Bacterial Reverse Mutation Test) Negative Di-Lac-octyl amine methyl tolutrizzole Imitation/Corresol/ Toxicity / effect Imitation/Corresol/ Reverse Mutation Test) Notes Di-Lac-octyl amine methyl tolutrizzole Imitation/Corresol/ Mutation Test) Notes Notes Acute toxicity, by oral route: LD50 3313 mg/kg Rat OECD 401 (Acute Oral Deco/ Mutation Test) Notes Skin corresolw/initiation: Imitation/ Corresolw/initiation: Imitation/ Reproducity Notes Notes Germ cell mutagenicity: Imitation/ Corresolw/initiation: Imitation/ Reproducity Notes Notes Germ cell mutagenicity: Imitation/ Reproducitive toxicity: Imitation/ Reproducitive toxicity: Notes Notes Germ cell mutagenicity: Imitation/ Reproducitive toxicity: Note Notes Notes Germ cell mutagenicity: Imitation/ Reproducitive toxicity: Note Notes	Acute toxicity, by inhalation:	ATE	3,08	mg/l/4h			Dusts or mist
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Respiratory or skin sensitisation: Sensitisation: Sensitisation: Sensitisation: Sensitisation: Sensitisation: Sensitisation: Sensitisation: Negative Germ cell mutagenicity: Image: Sensitisation: Self Mouse OECD 490 (In vitro match) Negative Symptoms: Image: Sensitisation: Self Mouse OECD 470 (In vitro match) Negative Di-iso-cotyl amino methyl tolutrizole Image: Sensitisation: Negative eyes: reddened, watering eyes Di-iso-cotyl amino methyl tolutrizole Image: Sensitisation: Notes Notes Acute toxicity, by oral route: LD50 3313 mg/kg Rat OECD 470 (In vitro match) Senso segs damagabirination: Image: Sensitisation: Image: Sensitisation: Notes Senso segs damagabirination: Image: Sensitisation: Sensitisation: Note Germ cell mutagenicity: Image: Sensitisation: Rat OECD 470 (In Vitro Marmalian) Note Image: Sensitisation: Germ cell mutagenicity: Image: Sensitisation: Image: Sensitisation: Sensitisation: Note Image: Sensi	, 3						
sensitisation: Yes (kin contact) Germ cell mutagenicity: Image: Contact (in vitro privation (in vitro privitro privation (in vitro priv	Respiratory or skin				Guinea pig		Skin Sens 1
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Germ cell mutagenicity: Salmonella typhimurium OECD 471 (Bacterial Reverse Mutation Test) Negative wester, reddened, watering eyes. Di-iso-octyl amino methyl tolutriazole Image: Comparison of the comparison of							
Symptoms: Image: Control of the symptoms: Image: Control of the symptoms: Provide the symptoms: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Symptoms: eyes, reddened, watering eyes Di-iso-octyl amino methyl tolutrizole Endpoint Value Unit Organism Test method Notes Acute toxicity, by oral route: LD50 3313 mg/kg Rat OECD 401 (Acute Oral Toxicity) Notes Skin corrosion/irritation: LD50 >2000 mg/kg Rat OECD 402 (Acute Dermal Toxicity) Notes Skin corrosion/irritation: LD50 >2000 mg/kg Rabbit (Driaze-Test) Skin frit. 2 Serious eye damage/riritation: Rabbit Guinea pig OECD 406 (Skin Yes (skin contact) Contact) Germ cell mutagenicity: Marmalian Marmalian OECD 476 (In Vitro Marmalian Negative, Analogous conclusion Negative, Analogous conclusion Negative, Analogous conclusion Negative, Analogous conclusion Negative, oral Negative, oral Specific target organ toxicity - repeated dexposure (STOT-RE), oral: NOAEL 45 mg/kg bw/d Rat OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Notes Specific target organ toxicity - reposited exposure (STOT-RE), oral: NOAEL	Germ cell mutagenicity:						Negative
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Toxicity / effectEndpointValueUnitOrganismTest methodNotesAcute toxicity, by oral route:LD503313mg/kgRatOECD 401 (Acute Oral Acute toxicity)CECD 402 (Acute Dermal Toxicity)Acute toxicity, by dermal route:LD50>2000mg/kgRatOECD 402 (Acute Dermal Toxicity)Skin Irrit. 2Skin corrosion/irritation:Rabbit(Draze-Test)Skin Irrit. 2Berjotatory or skinRabbit(Draze-Test)Not irritant oratechGerm cell mutagenicity:RatOECD 476 (In Vitro Marmalian Cell Gene Marmalian Cell Gene Marmalian Cell Gene Anatogous conclusionNegative, Anatogous conclusionNegative, Anatogous conclusionGerm cell mutagenicity:RatOECD 476 (In Vitro Marmalian CelC 0 473 (In Vitro Not irritant Marmalian CelC 0 473 (In Vitro Not irritant CelC 0 473 (In Vitro Not irritant Celc 0 473 (In Vitro Not irritant Celc 0 472 (In Vitro Not irritant Celc 0 472 (In Vitro Not irritant Natalion <br< td=""><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td></br<>					1		
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Serious eye damage/irritation: Rabbit OECD 405 (Acute Eye Irritation/Corrosion) Not irritant Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) No (skin contact) Germ cell mutagenicity: OECD 487 (In Vitro Mammalian Cell Micronucleus Test) Negative Reproductive toxicity: Rat OECD 443 (Extended One-Generation Reproductive Toxicity Possible risk of impaired fertility.						Dermal	
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Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) No (skin contact) Germ cell mutagenicity: OECD 487 (In Vitro Mammalian Cell Micronucleus Test) Negative Reproductive toxicity: Rat OECD 443 (Extended One-Generation minipaired fertility. Reproductive Toxicity Possible risk of impaired fertility.	Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation: Guinea pig OECD 406 (Skin Sensitisation) No (skin contact) Germ cell mutagenicity: OECD 487 (In Vitro Mammalian Cell Micronucleus Test) Negative Reproductive toxicity: Rat OECD 443 (Extended One-Generation Reproductive Toxicity Possible risk of impaired fertility.	, , , , , , , , , , , , , , , , , , , ,						
sensitisation: Sensitisation) Germ cell mutagenicity: OECD 487 (In Vitro Mammalian Cell Micronucleus Test) Negative Reproductive toxicity: Rat OECD 443 (Extended One-Generation Reproductive Toxicity Possible risk of impaired fertility.	Respiratory or skin				Guinea nig		No (skin contact)
Germ cell mutagenicity: OECD 487 (In Vitro Mammalian Cell Micronucleus Test) Negative Reproductive toxicity: Rat OECD 443 (Extended One-Generation Reproductive Toxicity Possible risk of impaired fertility.					pig		
Mammalian Cell Micronucleus Test) Reproductive toxicity: Rat OECD 443 (Extended One-Generation Reproductive Toxicity			-				Negative
Image: marked base of the second s	Centroen mulayemulty.						negative
Reproductive toxicity: Rat OECD 443 (Extended One-Generation impaired fertility. Reproductive toxicity Reproductive Toxicity Reproductive Toxicity							
One-Generation impaired fertility. Reproductive Toxicity	Depareductive to det				Det		Dessible with f
Reproductive Toxicity	Reproductive toxicity:				Rat		
							impaired fertility.
Study)	1						



GB)						
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Specific target organ toxicity - single exposure (STOT-SE):						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):				Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developm. Tox. Screening Test)	Target organ(s) Thyroid, Target organ(s): liver
Hydrocarbons, C3-4						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Germ cell mutagenicity:				Rat	OECD 474 (Mammalian Erythrocyte Micronucleus Test)	Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEC	10000	ppm	Rat	OECD 413 (Subchronic Inhalation Toxicity - 90- Day Study)	
Symptoms:						malaise, nausea dizziness, mucous membrane irritation, drowsiness,

11.2. Information on other hazards

GUNTEC Waffenpflegespray						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply
						to mixtures.
Other information:						No other
						relevant
						information
						available on
						adverse effects
						on health.

Distillates (petroleum), hydrotreated light naphthenic											
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes					
Other information:	NOAEL	>2000	mg/kg	Rat	OECD 411 (Subchronic						
					Dermal Toxicity - 90-day Study)						

SECTION 12: Ecological information

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

GUNTEC Wattenptiegespray										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.1. Toxicity to fish:							n.d.a.			
12.1. Toxicity to daphnia:							n.d.a.			
12.1. Toxicity to algae:							n.d.a.			



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12.2. Persistence and degradability:					The surfactant(s) contained in this mixture complies(comply) with the biodegradability 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
12.3. Bioaccumulative					at the request of a detergent manufacturer. n.d.a.
potential:					
12.4. Mobility in soil:					n.d.a.
12.5. Results of PBT and vPvB assessment					n.d.a.
12.6. Endocrine disrupting properties:					Does not apply to mixtures.
12.7. Other adverse effects:					No information available on other adverse effects on the environment.

oxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
2.1. Toxicity to fish:	NOEC/NOEL	28d	2,045	mg/l	Oncorhynchus		
-				-	mykiss		
12.1. Toxicity to fish:	NOELR	28d	2,04	mg/l	Salmo gairdneri		
12.1. Toxicity to fish:	LC50	96h	11,4	mg/l	Oncorhynchus	OECD 203 (Fish,	
					mykiss	Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	LL50	96h	11,4	mg/l	Salmo gairdneri	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	3	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	NOELR	48h	2,1	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,17	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	30-100	mg/l	Pseudokirchneriell	OECD 201 (Alga,	
					a subcapitata	Growth Inhibition	
						Test)	



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12.2. Persistence and degradability:		28d	81	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
12.3. Bioaccumulative potential:							Concentration i organisms possible.
12.3. Bioaccumulative potential:	BCF		242-253				
12.4. Mobility in soil: 12.5. Results of PBT							Adsorption in ground., Produc is slightly volatil No PBT
and vPvB assessment							substance, No vPvB substance
Other information:	AOX		0	%			
Distillates (petroleum), h							
Toxicity / effect 12.1. Toxicity to fish:	Endpoint LL50	Time 96h	Value >100	Unit mg/l	Organism Pimephales	Test method OECD 203 (Fish,	Notes
·		0011	2100	iiig/i	promelas	Acute Toxicity Test)	
12.1. Toxicity to fish:	NOELR	14d	>1000	mg/l	Oncorhynchus mykiss	QSAR	
12.1. Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	10	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	>100	mg/l	Pseudokirchneriell a subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	10	%			Not readily biodegradable
12.2. Persistence and degradability:							Mechanical precipitation possible.
12.2. Persistence and degradability:		28d	31	%	activated sludge	OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Not readily but inherent biodegradable.
12.3. Bioaccumulative potential:	Log Pow		6,0				A notable biological accumulation potential has to be expected (LogPow > 3).
12.3. Bioaccumulative potential:	BCF		<500				Low
12.5. Results of PBT and vPvB assessment							No PBT substance, No
12.5. Results of PBT							

Benzenesanome acia, di-oro-ri-aikyr derivsi, calcium saits										
Endpoint	Time	Value	Unit	Organism	Test method	Notes				
LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)					
	Endpoint	Endpoint Time	Endpoint Time Value	Endpoint Time Value Unit	EndpointTimeValueUnitOrganismLC5096h>100mg/lOncorhynchus	Endpoint Time Value Unit Organism Test method LC50 96h >100 mg/l Oncorhynchus mykiss OECD 203 (Fish, Acute Toxicity				



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12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to algae:	EL50	72h	>100	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	8	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		70,8				Not to be expected
12.3. Bioaccumulative potential:	Log Kow		26,22				calculated value20°C
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>10000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Benzene, mono-C10-14-a	alkyl derivs., fr	actionation	bottoms, in	termediate	cut, sulfonated, sodiu	m salts	
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to fish:	LC50	96h	>1000	mg/l	Pimephales	OECD 203 (Fish,	
					promelas	Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	>1000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.2. Persistence and		28d	8	%	activated sludge	OECD 301 D	Not
degradability:						(Ready	biodegradable
						Biodegradability -	
						Closed Bottle Test)	
12.3. Bioaccumulative	Log Pow		6,75				A notable
potential:							biological
							accumulation
							potential has to
							be expected
							(LogPow > 3).

Reaction products of 2,5-dimercapto-1,3,4-thiadiazole, sodium salt, with 1-octanethiol and hydrogen peroxide										
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
12.3. Bioaccumulative potential:	Log Pow		>12-<14			OECD 117 (Partition Coefficient (n- octanol/water) - HPI C method)	High			



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Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other information:							Does not contain any organically bound halogens which can contribute to the AOX value in waste water.

Di-iso-octyl amino methyl tolutriazole							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	1,3	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	2,05	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	EC10	21d	0,451	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	0,976	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	0,658	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.2. Persistence and		28d	7-11	%	activated sludge	OECD 301 B	Not readily
degradability:						(Ready	biodegradableCO
						Biodegradability -	2 formation of
						Co2 Evolution	the theoretical
						Test)	value
12.5. Results of PBT							No PBT
and vPvB assessment							substance, No
							vPvB substance

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish,	
						Acute Toxicity	
						Test)	
12.1. Toxicity to daphnia:	EC50	48h	51	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
12.1. Toxicity to daphnia:	EC10	21d	1,69	mg/l	Daphnia magna	OECD 211	
						(Daphnia magna	
						Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Desmodesmus	OECD 201 (Alga,	
					subspicatus	Growth Inhibition	
						Test)	
12.2. Persistence and degradability:	Log Koc		3,8				calculated value
12.2. Persistence and degradability:	Log Pow		>6				



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12.3. Bioaccumulative potential: 12.5. Results of PBT and vPvB assessment	BCF	42d	411		Cyprinus caprio		Analogous conclusion No PBT substance, No vPvB substance
12.6. Endocrine disrupting properties:							No
Toxicity to bacteria:	EC20	3h	~100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to annelids:	EC10	56d	259	mg/kg	Eisenia foetida	OECD 222 (Earthworm Reproduction Test (Eisenia fetida/Eisenia andrei))	

Hydrocarbons, C3-4 Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:							Biodegradable
12.3. Bioaccumulative potential:							A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.4. Mobility in soil:							Product is slightly volatile.
12.5. Results of PBT and vPvB assessment							No PBT substance, 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

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.

Recommendation:

Return to manufacturer with residual pressure.

Do not perforate, cut up or weld uncleaned container.

15 01 04 metallic packaging

SECTION 14: Transport information

General statements



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Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:		
UN 1950 AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	AV.
14.5. Environmental hazards:	environmentally hazardous	$\langle \underline{\mathbf{x}} \rangle$
Tunnel restriction code:	D	\sim
Classification code:	5F	
LQ:	1 L	
Transport category:	2	
Transport by sea (IMDG-code)		
14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:		
UN 1950 AEROSOLS		
14.3. Transport hazard class(es):	2.1	
14.4. Packing group:	-	AV
14.5. Environmental hazards:	environmentally hazardous	< <u>*</u> >
Marine Pollutant:	Yes	\sim
EmS:	F-D, S-U	
Transport by air (IATA)		
14.1. UN number or ID number:	1950	
14.2. UN proper shipping name:		
UN 1950 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)! Regulation (EC) No 1907/2006, Annex XVII

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Comply with trade association/occupational health regulations.

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

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.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as referred to in Article 3(10) for the	dangerous substances as referred to in Article 3(10) for the
		application of - Lower-tier	application of - Upper-tier
		requirements	requirements
E2		200	500
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.



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Directive 2010/75/EU (VOC): **REGULATION (EC) No 648/2004**

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

perfumes

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National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

Observe incident regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

14 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) No. 1272/2008 (CLP)	Evaluation method used
Skin Irrit. 2, H315	Classification according to calculation procedure.
Asp. Tox. 1, H304	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Aquatic Chronic 2, H411	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. H361f Suspected of damaging fertility.

H225 Highly flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H332 Harmful if inhaled. H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

Skin Irrit. — Skin irritation Asp. Tox. — Aspiration hazard STOT SE - Specific target organ toxicity - single exposure - narcotic effects Aquatic Chronic - Hazardous to the aquatic environment - chronic Aerosol — Aerosols Flam. Liq. — Flammable liquid Skin Sens. — Skin sensitization

70 %



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Acute Tox. — Acute toxicity - inhalation Aquatic Acute — Hazardous to the aquatic environment - acute Repr. — Reproductive toxicity

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:

according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR 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) Acute Toxicity Estimate ATE Bundesanstalt für Materialforschung und -prüfung (= Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BSEF The International Bromine Council 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 Dissolved organic carbon DOC for example (abbreviation of Latin 'exempli gratia'), for instance e.g. EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants) European Community EC 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 ΕN **European Norms** United States Environmental Protection Agency (United States of America) FPA $ErCx, E\mu Cx, ErLx (x = 10, 50)$ Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants) et cetera etc. EU **European Union** EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Adsorption coefficient of organic carbon in the soil Koc octanol-water partition coefficient Kow IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) IMDG-code International Maritime Code for Dangerous Goods



ആ Page 23 of 23 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878) Revision date / version: 27.11.2024 / 0031 Replacing version dated / version: 04.03.2024 / 0030 Valid from: 27.11.2024 PDF print date: 27.11.2024 GUNTEC Waffenpflegespray incl. including, inclusive IUCLID International Uniform Chemical Information Database IUPAC International 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 Limited Quantities LQ International Convention for the Prevention of Marine Pollution from Ships MARPOL mg/kg bw mg/kg body weight mg/kg bw/d, mg/kg bw/day mg/kg body weight/day mg/kg dw mg/kg dry weight mg/kg wwt mg/kg wet weight not applicable n.a. not available n.av. not checked n.c. n.d.a. no data available NIOSH National Institute for Occupational Safety and Health (USA) No-longer-Polymer NLP NOEC, NOEL No Observed Effect Concentration/Level OECD Organisation for Economic Co-operation and Development organic org. OSHA Occupational Safety and Health Administration (USA) persistent, bioaccumulative and toxic PBT Polyethylene PF PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 6/7/8/9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical REACH-IT List-No 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 Total organic carbon TOC UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds very persistent and very bioaccumulative vPvB

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.

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