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

Revised on / Version: 14.05.2012 / 0017

Replaces revision of / Version: 27.02.2012 / 0016

Valid from: 14.05.2012 PDF print date: 14.05.2012 Schnellrostlöser 300ml Art.: 1612

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

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

1.1 Product identifier

Schnellrostlöser 300ml

Art.: 1612

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

Rust remover

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC24 - Lubricants, greases, release products

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

Process category [PROC]:

PROC 1 - Use in closed process, no likelihood of exposure.

PROC 2 - Use in closed, continuous process with occasional controlled exposure

PROC 7 - Industrial spraying

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC11 - Non industrial spraying

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 8a - Wide dispersive indoor use of processing aids in open systems ERC 8d - Wide dispersive outdoor use of processing aids in open systems

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

LIQUI MOLY GmbH, Jerg-Wieland-Straße 4, D-89081 Ulm-Lehr Telephone (+49) 0731-1420-0, Fax (+49) 0731-1420-88

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

1.4 Emergency telephone

Advisory office in case of poisoning:

Telephone number of the company in case of emergencies:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Not determined

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



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F+,Extremely flammable

Dangerous for the environment, R52-53

Xn, Harmful, R65

R66

2.2 Label elements

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

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



Symbols: F+ Indications of danger:

Extremely flammable

R-phrases:

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

S-phrases:

23 Do not breathe spray.

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

51 Use only in well-ventilated areas.

Additions:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

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

2.3 Other hazards

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

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

Danger of bursting (explosion) when heated

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

REGULATION (EC) No 648/2004

30 % and more aliphatic hydrocarbons 5 % or over but less than 15 % aromatic hydrocarbons less than 5 % non-ionic surfactants

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

OIZ MIXEGIO	
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-	
25%)	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	919-164-8 (REACH-IT List-No.)
CAS	(64742-82-1)
content %	50-60



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Classification according to Directive 67/548/EEC	Dangerous for the environment, R52
	Dangerous for the environment, R53
	Harmful, Xn, R65
	R66
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304
	Aguatic Chronic 3, H412

Carbon dioxide	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	204-696-9
CAS	CAS 124-38-9
content %	1-10
Classification according to Directive 67/548/EEC	
Classification according to Regulation (EC) 1272/2008 (CLP)	

2-Butoxyethanol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	
Index	603-014-00-0
EINECS, ELINCS, NLP	203-905-0
CAS	CAS 111-76-2
content %	1-5
Classification according to Directive 67/548/EEC	Harmful, Xn, R20/21/22
	Irritant, Xi, R36/38
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Eye Irrit. 2, H319
	Skin Irrit. 2, H315
	Acute Tox. 3, H331
	Acute Tox. 4, H312

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

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

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.

The following may occur:

Irritation of the respiratory tract

with long-term contact:

Product removes fat.

Irritation of the skin.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment

SECTION 5: Firefighting measures



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5.1 Extinguishing media Suitable extinguishing media

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher Cool container at risk with water.

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of sulphur

Hydrocarbons

Toxic pyrolysis products.

Danger of explosion by prolonged heating.

Explosive vapour/air mixture

5.3 Advice for firefighters

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

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

Prevent from entering drainage system.

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

6.3 Methods and material for containment and cleaning up

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

Active substance:

Soak up with absorbent material (e.g. universal binding agent, 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.

Keep away from sources of ignition - Do not smoke.

Do not use on hot surfaces.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

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 in a well-ventilated place.

Observe special regulations for aerosols!



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Not to be stored in gangways or stair wells.

Do not store with oxidizing agents.

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

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limit (WEL) of the total hydrocarbon solvent content of the mixture (RCP method according to EH40): 1000 mg/m3

© Chemical Name	Hydrocarbons, C10	0-C13, n-alkane	s, isoalkanes, cyclic	cs, aromatics (2-25%	5)	Content %:50-60
WEL-TWA: 1000 mg/m3		WEL-STEL:				-
BMGV:				Other information: EH40)	(WEL a	cc. to RCP-method,
Chemical Name	Carbon dioxide					Content %:1-10
WEL-TWA: 5000 ppm (9150 mg/m	3) (WEL), 5000	WEL-STEL:	15000 ppm (27400) mg/m3) (WEL)		-
ppm (9000 mg/m3) (EC)						
BMGV:				Other information:		
Chemical Name	2-Butoxyethanol					Content %:1-5
WEL-TWA: 25 ppm (123 mg/m3) (WEL), 20 ppm (98	WEL-STEL:	50 ppm (246 mg/n	n3) (WEL, EC)		-
mg/m3) (EC)						
BMGV: 240 mmol butoxyacetic aci	d/mol creatinine in u	rine, post shift (BMGV)	Other information:	Sk (WE	L)
	Oil mist, mineral					Content %:
WEL-TWA: 5 mg/m3 (ACGIH)		WEL-STEL:	10 mg/m3 (ACGIF)		-
BMGV:				Other information:		

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

^{** =} The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

2-Butoxyethanol Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
Area or application	•	Effect off fleatti	Descriptor	value	Offic	Note
	Environmental					
	compartment					
Workers / employees	Human - dermal	Short term	DNEL	89	mg/kg	
Workers / employees	Human - inhalation	Short term	DNEL	663	mg/m3	
Workers / employees	Human - inhalation	Short term, local	DNEL	246	mg/m3	
. ,		effects				
Workers / employees	Human - dermal	Long term	DNEL	75	mg/kg	
Workers / employees	Human - inhalation	Long term	DNEL	98	mg/m3	
Consumer	Human - dermal	Short term	DNEL	44,5	mg/kg	
Consumer	Human - inhalation	Short term	DNEL	426	mg/m3	
Consumer	Human - oral	Short term	DNEL	13,4	mg/kg	
Consumer	Human - inhalation	Short term, local	DNEL	123	mg/m3	
		effects				
Consumer	Human - dermal	Long term	DNEL	38	mg/kg	
Consumer	Human - inhalation	Long term	DNEL	49	mg/m3	
Consumer	Human - oral	Long term	DNEL	3,2	mg/kg	
	Environment - freshwater	_	PNEC	8,8	mg/l	
	Environment - marine		PNEC	8,8	mg/l	
	Environment - sediment,		PNEC	8,14	mg/kg	
	freshwater					
	Environment - soil		PNEC	2,8	mg/kg	



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8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

Eye/face protection:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Solvent resistant protective gloves (EN 374).

If applicable

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0,3

Permeation time (penetration time) in minutes:

> 120

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 A P 3 (EN 14387), code colour brown, white

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.

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:

Colour:

Odour:

Odour threshold:

Aerosol

Colourless

Characteristic

Not determined

pH-value: n.a.

Melting point/freezing point:

Initial boiling point and boiling range:

Flash point:

Not determined

Not determined

Not determined



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Evaporation rate:

Flammability (solid, gas):

Lower explosive limit:

Upper explosive limit:

Vapour pressure:

Vapour density (air = 1):

Density:

Not determined

Bulk density: 0,629-0,60 g/mi (...

Bulk density: Not determined

Solubility(ies): Not determined

Water solubility: Insoluble

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Auto-ignition temperature:

Not determined

Auto-ignition temperature:

Not determined

Not determined

Not determined

Viscosity:

Not determined

Not determined

Not determined

Not determined

Not determined

Oxidising properties: No

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Surface tension:

Not determined

Not determined

Not determined

Not determined

Not determined

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

Hazardous reactions will not occur during storage and handling under normal conditions.

10.4 Conditions to avoid

See also section 7.

Pressure increase will result in danger of bursting.

Heating, open flame, ignition sources

10.5 Incompatible materials

See also section 7.

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

oxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
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):						



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Specific target organ toxicity -	n.d.a.
repeated exposure (STOT-RE):	
Aspiration hazard:	n.d.a.
Respiratory tract irritation:	n.d.a.
Repeated dose toxicity:	n.d.a.
Symptoms:	n.d.a.
Other toxicity data:	Classification according
	to calculation procedure.

Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2920	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	Analogous conclusion
Acute toxicity, by inhalation:	LC50	>13,1	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Analogous conclusion
Skin corrosion/irritation:					minalation Toxicity)	Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation:						Mild irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant (Analogous conclusion)
Respiratory or skin sensitisation:						Not sensitizising
Respiratory or skin sensitisation:					OECD 406 (Skin Sensitisation)	Not sensitizising, Analogous conclusion
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative, Analogous conclusion
Carcinogenicity:					OECD 453 (Combined Chronic Toxicity/Carcinogenicit y Studies)	Negative, Analogous conclusion
Reproductive toxicity:					OECD 416 (Two- generation Reproduction Toxicity Study)	Negative, Analogous conclusion
Specific target organ toxicity - single exposure (STOT-SE):						No indications of such a effect.
Specific target organ toxicity - repeated exposure (STOT-RE):					OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	No indications of such a effect., Analogous conclusion
Aspiration hazard:						Yes
Respiratory tract irritation:						Not irritant
Symptoms:						dizziness, unconsciousness, vomiting, annoyance, sk afflictions, heart/circulatory disorders, headaches, cramps, drowsiness,

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



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Toxicity/effect	Endpoin	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	560	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Guinea pig	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	2,17	mg/l/4h	Rat	,	Analogous conclusion
Skin corrosion/irritation:				Rabbit		Irritant, Product removes fat.
Serious eye damage/irritation:						Intensively irritant, Risk of serious damage to eyes.
Respiratory or skin				Guinea pig		Not sensitizising
sensitisation:						
Repeated dose toxicity:						
Symptoms:						acidosis, ataxia, breathing difficulties, respiratory distress, dizziness, unconsciousness, annoyance, coughing, headaches, gastrointestinal disturbances, insomnia, mucous membrane irritation, dizziness

SECTION 12: Ecological information

Schnellrostlöser 300ml							
Art.: 1612							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							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 at the request of a detergent manufacturer.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.
Other ecotoxicological data:							According to the recipe, contains no AOX.

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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Toxicity to fish:	LD50	96h	10-100	mg/l	(Oncorhynchus mykiss)	Analogous conclusion
Toxicity to daphnia:	LOEC/LOE L	21d	0,203	mg/l	(Daphnia magna)	Analogous conclusion
Toxicity to daphnia:	NOEC/NO EL	21d	0,097	mg/l	(Daphnia magna)	Analogous conclusion
Toxicity to daphnia:	EL50	48h	10-22	mg/l	(Daphnia magna)	Analogous conclusion
Toxicity to algae:	EL50	72h	10-100	mg/l	(Pseudokirchneriell a subcapitata)	Analogous conclusion
Toxicity to algae:	NOELR	72h	3	mg/l	(Pseudokirchneriell a subcapitata)	Analogous conclusion
Persistence and degradability:		28d	74,7	%		Analogous conclusion
Results of PBT and vPvB assessment						No PBT substance, No vPvB substance

2-Butoxyethanol							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	1490	mg/l	(Lepomis macrochirus)		
Toxicity to fish:	LC50	96h	1474	mg/l	(Oncorhynchus mykiss)	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	1550	mg/l	(Daphnia magna)	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to daphnia:	NOEC/NO EL	21d	100	mg/l	(Daphnia magna)	OECD 211 (Daphnia magna Reproduction Test)	
Toxicity to algae:	EC0	7d	900	mg/l	(Scenedesmus quadricauda)		
Persistence and degradability:		28d	95	%		OECD 301 E (Ready Biodegradability - Modified OECD Screening Test)	
Persistence and degradability:		28d	>99	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	
Persistence and degradability:		28d	100	%		Zahn-Wellens- Test	
Bioaccumulative potential:	Log Pow		0,83				Negative
Mobility in soil:	H (Henry)		0,0000 016	atm*m3/ mol			
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC0	16h	>700	mg/l	(Pseudomonas putida)	DIN 38412 T.8	
Water solubility:							Mixable

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:



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The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 16 05 04 gases in pressure containers (including halons) containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

Approved rubbish dump for special refuse

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.

SECTION 14: Transport information

General statements

UN number: 1950

Transport by road/by rail (ADR/RID)

UN proper shipping name: UN 1950 AEROSOLS

2.1 Transport hazard class(es): Packing group: Classification code: 5F LQ (ADR 2011): 1 L LQ (ADR 2009):

Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

AEROSOLS

Transport hazard class(es): 2.1 Packing group:

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

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Aerosols, flammable

Transport hazard class(es): 2.1 Packing group:

Environmental hazards: Not applicable

Special precautions for user

Persons employed in transporting dangerous goods must be trained.

All persons involved in transporting must observe safety regulations.

Precautions must be taken to prevent damage.

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

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

Minimum amount regulations have not been taken into account.

Danger code and packing code on request.

SECTION 15: Regulatory information

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

Yes

For classification and labelling see Section 2.

Observe restrictions:

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

VOC 1999/13/EC ~ 58% w/w

15.2 Chemical safety assessment











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A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections:

R

The following statements are the indicated R-phrases / H-phrases and classification codes (GHS/CLP) for the ingredients (listed in Section 3). 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

52 Harmful to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Asp. Tox.-Aspiration hazard

Aquatic Chronic-Hazardous to the aquatic environment - chronic

Acute Tox.-Acute toxicity - oral

Eye Irrit.-Eye irritation

Skin Irrit.-Skin irritation

Acute Tox.-Acute toxicity - inhalation

Acute Tox.-Acute toxicity - dermal

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the

International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

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

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration



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Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

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

European Community FC ECHA European Chemicals Agency European Economic Area EEA 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) EPA

ERC Environmental Release Categories

ES Exposure scenario et cetera etc.

EU **European Union**

EWC European Waste Catalogue

Fax. Fax number general gen.

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

Hen's Egg Test - Chorionallantoic Membrane HFT-CAM

HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer International Air Transport Association IATA

Intermediate Bulk Container **IBC**

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

including, inclusive incl.

IUCLID International Uniform Chemical Information Database

lethal concentration LC

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

LD Lethal Dose of a chemical LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level

LQ **Limited Quantities**

MARPOL International Convention for the Prevention of Marine Pollution from Ships

not applicable n.a. not available n.av. not checked no data available n.d.a.

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAECNo Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon persistent, bioaccumulative and toxic PBT

PC Chemical product category

PΕ Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

parts per million ppm PROC Process category PTFE Polytetrafluorethylene

REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration,

Evaluation, Authorisation and Restriction of Chemicals)



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9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List REACH-IT List-No.

Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International

Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Telephone Tel.

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VbF

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WÉL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) WEL-TWA, WEL-STEL

reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by: Chemical Check GmbH, Wöbbeler Straße 2-4, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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