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

1.1 Product identifier

Coffee Machine Cleaning Granulate

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

Cleaner

Sector of use [SU]:

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

Chemical product category [PC]:

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

Environmental Release Category [ERC]:

ERC 8a - Wide dispersive indoor 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

lujoCLEAN cleaning products, Weidenstrasse 13, D-82386 Huglfing Tel. +49 (0)88 02 - 913 747 -0 Fax. +49 (0)88 02 - 913 747 -1

www.lujoclean.com - info@lujoclean.com

Qualifified person's e-mail address: info@lujoclean.com Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0)1 78 538 16 76 (GER)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)
Hazard class Hazard category Hazard statement

Eye Irrit. 2 H319-Causes serious eye irritation.

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

Xi, Irritant, R36

2.2 Label elements

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



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Hazard statement

H319-Causes serious eye irritation.

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children.

Prevention

P280-Wear eye protection.

Response

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313-If eye irritation persists: Get medical advice/attention.

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.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Sodium carbonate	
Registration number (REACH)	01-2119485498-19-XXXX
Index	011-005-00-2
EINECS, ELINCS, NLP	207-838-8
CAS	CAS 497-19-8
content %	20-30
Classification according to Directive 67/548/EEC	Irritant, Xi, R36
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319

Sodium carbonate peroxohydrate	Substance with specific conc. limit(s) acc. to REACh-
	registration
Registration number (REACH)	01-2119457268-30-XXXX
Index	
EINECS, ELINCS, NLP	239-707-6
CAS	CAS 15630-89-4
content %	10-<25
Classification according to Directive 67/548/EEC	Oxidizing, O, R8
	Harmful, Xn, R22
	Irritant, Xi, R41
Classification according to Regulation (EC) 1272/2008 (CLP)	Ox. Sol. 3, H272
	Acute Tox. 4, H302
	Eye Dam. 1, H318

Citric acid	
Registration number (REACH)	01-2119457026-42-XXXX
Index	
EINECS, ELINCS, NLP	201-069-1
CAS	CAS 77-92-9
content %	10-20
Classification according to Directive 67/548/EEC	Irritant, Xi, R36
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319

Silicic acid, sodium salt	
Registration number (REACH)	01-2119448725-31-XXXX
Index	
EINECS, ELINCS, NLP	215-687-4

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CAS	CAS 1344-09-8
content %	1-5
Classification according to Directive 67/548/EEC	Irritant, Xi, R36/37/38
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319
	STOT SE 3, H335
	Skin Irrit. 2, H315

(1-hydroxyethylidene)bisphosphonic acid, sodium salt	
Registration number (REACH)	01-2119510382-52-XXXX
Index	
EINECS, ELINCS, NLP	249-559-4
CAS	CAS 29329-71-3
content %	1-2,5
Classification according to Directive 67/548/EEC	Harmful, Xn, R22
	Irritant, Xi, R36
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	Eye Irrit. 2, H319

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

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.

Eve contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.

Give copious water to drink - consult doctor immediately.

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.

With long-term contact:

Dermatitis (skin inflammation)

On dust formation:

Coughing

Irritation of the respiratory tract

Irritant to mucosa of the nose and throat

4.3 Indication of any immediate medical attention and special treatment needed

n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media

Adapt to the nature and extent of fire. Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of phosphorus

Toxic gases

5.3 Advice for firefighters

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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

Avoid build up of dust.

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

Contact with water - danger of sliding.

6.2 Environmental precautions

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

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

Pick up mechanically and dispose of according to Section 13.

Flush residue using copious water.

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

Avoid build up of dust.

Avoid contact with eyes.

Avoid long lasting or intensive contact with skin.

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

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

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

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from humidity.

Store at room temperature.

7.3 Specific end use(s)

Cleaning product

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	general dust limit			Content %:
WEL-TWA: 10 mg/m3 (inhal. du	ıst), 4 mg/m3	WEL-STEL:		
(respir. dust)				
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"

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(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.

Sodium carbonate						
Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental		r			
	compartment					
Workers / employees	Human - inhalation	Long term, local	DNEL	10	mg/m3	
		effects				

Sodium carbonate pero	xohydrate					
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Workers / employees	Human - dermal	Short term, local effects	DNEL	12,8	mg/cm2	
Workers / employees	Human - dermal	Long term, local effects	DNEL	12,8	mg/cm2	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	5	mg/m3	
Consumer	Human - dermal	Short term, local effects	DNEL	6,4	mg/cm2	
Consumer	Human - dermal	Long term, local effects	DNEL	6,4	mg/cm2	
	Environment - freshwater		PNEC	0,035	mg/l	
	Environment - marine		PNEC	0,035	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	0,035	mg/l	
	Environment - sewage treatment plant		PNEC	16,24	mg/l	

Area of application	Exposure route /	Effect on health	Descripto	Value	Unit	Note
	Environmental compartment		r			
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,61	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	1,59	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,8	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,38	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,8	mg/kg bw/day	
	Environment - freshwater		PNEC	7,5	mg/l	
	Environment - marine		PNEC	1	mg/l	
Environment - water, sporadic (intermittent) release Environment - sewage treatment plant	sporadic (intermittent)		PNEC	7,5	mg/l	
			PNEC	348	mg/l	

Citric acid						
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
	Environment - freshwater		PNEC	0,44	mg/l	



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Environment - marine	PNEC	0,044	mg/l	
Environment - sewage	PNEC	1000	mg/l	
treatment plant				
Environment - sediment,	PNEC	34,6	mg/kg dw	
freshwater				
Environment - sediment,	PNEC	3,46	mg/kg dw	
marine				
Environment - soil	PNEC	33,1	mg/kg dw	

(1-hydroxyethylidene)bi	isphosphonic acid, sodium sa	lt				
Area of application	Exposure route / Environmental compartment	Effect on health	Descripto r	Value	Unit	Note
Workers / employees	Human - oral	Long term	DNEL	13	mg/kg bw/d	
Consumer	Human - oral	Long term	DNEL	6,5	mg/kg bw/d	
	Environment - freshwater		PNEC	0,136	mg/l	
	Environment - marine		PNEC	0,0136	mg/l	
	Environment - sediment, freshwater		PNEC	59	mg/kg	
	Environment - sediment, marine		PNEC	5,9	mg/kg	
	Environment - soil		PNEC	96	mg/kg	
	Environment - sewage treatment plant		PNEC	20	mg/l	
	Environment - oral (animal feed)		PNEC	12	mg/kg	

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:

Normally not necessary.

With long-term contact:

If applicable

Rubber gloves (EN 374).

Safety gloves made of butyl (EN 374)

Protective nitrile gloves (EN 374)

Minimum layer thickness in mm:

0.5

Permeation time (penetration time) in minutes:

>= 480

The breakthrough times determined in accordance with EN 374 Part III were not obtained under practical conditions.

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

Protective hand cream recommended.

Skin protection - Other:

Usual protective working garments



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Respiratory protection:

Normally not necessary.

If the general dust-limit is exceeded, breathing masks with fine-dust filters are necessary (EN 143), code colour white.

If applicable, filter P 2 (EN 143), code colour 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: Solid, Tabs Colour: White

Odour: Characteristic
Odour threshold: Not determined
pH-value: 10 (1 %)

Melting point/freezing point:

Not determined Initial boiling point and boiling range:

Not determined

Flash point: n.a. Evaporation rate: n.a.

Flammability (solid, gas):

Lower explosive limit:

Not determined

Upper explosive limit:

Not determined

Vapour pressure: n.a. Vapour density (air = 1): n.a.

Density: Not determined

Bulk density: n.a.

Solubility(ies):
Water solubility:

Not determined
Soluble

Partition coefficient (n-octanol/water):

Not determined

Auto-ignition temperature: n.a.

Decomposition temperature: Not determined

Viscosity: n.a.

Explosive properties: Product is not explosive.
Oxidising properties: No, Analogous conclusion

9.2 Other information

Miscibility:

Fat solubility / solvent:

Conductivity:

Not determined

Not determined

Not determined

Not determined

Surface tension:

Not determined

Solvents content:

0 % (Organic solvents)

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

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10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

See also section 7. Protect from humidity.

10.5 Incompatible materials

See also section 7.

Bases Acids

Reducing agent

10.6 Hazardous decomposition products

See also section 5.2

No decomposition when used as directed.

SECTION 11: Toxicological information

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

Coffee Machine Cleaning Tak		17.1	11		T = 1 (1)	N. d.
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes
	nt					
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
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 information:						Classification according
						to calculation
						procedure.

Sodium carbonate									
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes			
	nt								
Acute toxicity, by oral route:	LD50	2800	mg/kg	Rat					
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit					
Acute toxicity, by inhalation:	LD50	2,3	mg/l/2h	Rat	OECD 403 (Acute Inhalation Toxicity)				
Skin corrosion/irritation:				Rabbit	•	Not irritant			
Serious eye damage/irritation:				Rabbit		Irritant			
Respiratory or skin sensitisation:						Not sensitizising			
Germ cell mutagenicity (in vitro):						Negative			

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Symptoms:		diarrhoea, vomiting, mucous membrane
		irritation, nausea, lower
		abdominal pain
Teratogenicity:		Negative

Sodium carbonate peroxohy	'	Value	Unit	Organism	Test method	Notes
Toxicity/effect	Endpoi	value	Ullit	Organisin	restilletilod	Notes
	nt					
Acute toxicity, by oral route:	LD50	1034	mg/kg	Rat		
Acute toxicity, by dermal	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
route:					Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye				Rabbit	OECD 405 (Acute	Risk of serious damage
damage/irritation:					Eye	to eyes., Corrosive
J					Irritation/Corrosion)	
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising
sensitisation:					Sensitisation)	
Symptoms:						mucous membrane
-						irritation

Citric acid	Citric acid									
Toxicity/effect	Endpoi nt	Value	Unit	Organism	Test method	Notes				
Acute toxicity, by oral route:	LD50	3000	mg/kg	Rat						
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Slightly irritant				
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Irritant				
Respiratory or skin						No indications of such				
sensitisation:						an effect.				
Respiratory or skin sensitisation:						No indications of such an effect.				
Germ cell mutagenicity (in vitro):						Negative				
Carcinogenicity:						Negative				
Reproductive toxicity:						Negative				
Symptoms:						vomiting, cornea				
						opacity, coughing,				
						stomach pain, mucous				
						membrane irritation				

Silicic acid, sodium salt								
Toxicity/effect	Endpoi	Value	Unit	Organism	Test method	Notes		
	nt							
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat				
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rat				
Acute toxicity, by inhalation:	LC50	>2060	mg/m3	Rat				
Skin corrosion/irritation:						Irritant		
Serious eye						Irritant		
damage/irritation:								
Specific target organ toxicity - repeated exposure (STOT-	NOAEL	>159	mg/kg bw/d	Rat				
RE):			DW/U					
Respiratory tract irritation:						Irritant		
Symptoms:						respiratory distress,		
						coughing, mucous		
						membrane irritation		

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

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Toxicity/effect	Endpoi nt	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1100	mg/kg	Rat		
Skin corrosion/irritation:						Not irritant
Serious eye						Irritant
damage/irritation:						
Respiratory or skin						Negative
sensitisation:						

SECTION 12: Ecological information

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

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							The surfactant(s)
degradability:							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
B' La C							manufacturer.
Bioaccumulative							n.d.a.
potential:							ndo
Mobility in soil:							n.d.a.
Results of PBT and							n.d.a.
vPvB assessment: Other adverse effects:							n.d.a.
Other adverse effects:			1				II.u.d.

Sodium carbonate										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Toxicity to fish:	LC50	96h	300	mg/l	Lepomis macrochirus					
Toxicity to daphnia:	EC50	96h	265	mg/l	Daphnia magna					
Persistence and							Not relevant for			
degradability:							inorganic substances.			
Bioaccumulative							No bioaccumulation.			
potential:										
Results of PBT and							No PBT substance, No			
vPvB assessment:							vPvB substance			
Water solubility:			215	g/l			20°C			

Sodium carbonate peroxohydrate										
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes			
Toxicity to fish:	LC50	96h	70,7	mg/l	Pimephales promelas					
Toxicity to daphnia:	NOEC/NO EL	48h	2	mg/l	Daphnia pulex					

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Bioaccumulative potential:							No bioaccumulation.
Toxicity to bacteria:	EC50	30min	466	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Citric acid							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	440- 706	mg/l			
Toxicity to daphnia:	EC50	72h	~120	mg/l	Daphnia magna	IUCLID Chem. Data Sheet (ESIS)	
Persistence and degradability:		24h	> 98	%		OECD 302 B (Inherent Biodegradability - Zahn- Wellens/EMPA Test)	
Bioaccumulative potential:						,	Not to be expected
Toxicity to bacteria:	EC5		>1000 0	mg/l	Pseudomonas putida		
Other information:	BOD5		526	mg/g			
Other information:	COD		728	mg/g			
Water solubility:			605	g/l			Soluble20°C

Silicic acid, sodium salt							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	•	
Toxicity to bacteria:	EC0	48h	>1000	mg/l			

(1-hydroxyethylidene)bisphosphonic acid, sodium salt							
Toxicity/effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss		
Toxicity to daphnia:	EC50	96h	>170	mg/l	Daphnia magna		
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. (2001/118/EC, 2001/119/EC, 2001/573/EC) 20 01 29 detergents containing dangerous substances

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

(GR

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Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Recommended cleaner:

Water

SECTION 14: Transport information

General statements

UN number: n.a.

Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Classification code:

LQ (ADR 2013):

LQ (ADR 2009):

n.a.

n.a.

Environmental hazards: Not applicable

Tunnel restriction code:

Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es):

Packing group:

Marine Pollutant:

n.a.

n.a.

Environmental hazards: Not applicable

Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es):

Packing group:

n.a.

Environmental hazards: Not applicable

Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

For classification and labelling see Section 2.

Observe restrictions: Yes

Comply with trade association/occupational health regulations.

Observe youth employment law (German regulation).

VOC (1999/13/EC): 0%

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

These details refer to the product as it is delivered.

Revised sections: n.a.

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	Evaluation method used		
(EC) No. 1272/2008 (CLP)			
Eye Irrit. 2, H319	Classification according to calculation procedure.		
Eye Irrit. 2, H319	Classification according to calculat		

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

22 Harmful if swallowed. 36 Irritating to eyes.

36/37/38 Irritating to eyes, respiratory system and skin.

41 Risk of serious damage to eyes.

8 Contact with combustible material may cause fire.

H272 May intensify fire, oxidiser.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eve damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Eye Irrit. — Eye irritation

Ox. Sol. — Oxidising solid

Acute Tox. — Acute toxicity - oral

Eye Dam. — Serious eye damage

STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation

Skin Irrit. — Skin irritation

Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIHAmerican 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

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

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

CIPAC Collaborative International Pesticides Analytical Council

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

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

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

dw dry weight

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

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

. (GB)

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ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLIDInternational Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration

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

LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

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

NIOSHNational Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic

PAH polycyclic aromatic hydrocarbon
PBT persistent, bioaccumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential

ppm parts per million PROC Process category PTFE Polytetrafluorethylene

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

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

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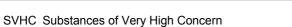
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Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

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.

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