Version number 4

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	dentification of the substance/mixture	ana of the company/undertaking
· 1.1 Product iden	tifier	SERV
	decylsulfate-Na-salt Sodium laurylsulfate	serving scienti
· Article number:	20763, 20771	
• CAS Number: 151-21-3		\sim
• EC number:		
205-788-1		
	ntified uses of the substance or mixture a	nd uses advised against
	ant information available.	
	he substance / the mixture: Laboratory che	emicais
• 1.3 Details of th • Manufacturer/S	e supplier of the safety data sheet	· Co
SERVA Electrop		
Carl-Benz-Str. 7		S
D-69115 Heidell		
<i>Tel.:</i> +49 6221 1 <i>FAX:</i> +49 6221		
msds.info@serva		U'
v	artment: Product Safety department Tel.:	+49 6221 13840-35
	elephone number:	+ + > 0221 150 1 0 <i>'55</i>
Medical Emerge	ncy Information in case of poisoning:	
	ion Center Mainz - Phone: +49 (0) 6131 19	9240
(advisory service	e in German or English language)	
SECTION 2: P	Hazards identification	
· 2.1 Classificatio	lazards identification n of the substance or mixture ccording to Regulation (EC) No 1272/2008	3:
· 2.1 Classificatio · Classification ad	n of the substance or mixture ecording to Regulation (EC) No 1272/2008	3:
· 2.1 Classificatio	n of the substance or mixture ecording to Regulation (EC) No 1272/2008	3:
2.1 Classificatio Classification ac	n of the substance or mixture ecording to Regulation (EC) No 1272/2008 5	3:
2.1 Classificatio	n of the substance or mixture ecording to Regulation (EC) No 1272/2008	3 :
2.1 Classificatio Classification ad GHS0 Eye Dam. 1	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage.	3 :
2.1 Classificatio Classification ad	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage.	3:
2.1 Classificatio Classification ad GHS0 Eye Dam. 1	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7	8 :
2.1 Classificatio Classification ad GHS0 Eye Dam. 1 GHS0	n of the substance or mixture ecording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed.	3:
2.1 Classification Classification ad GHS0 Eye Dam. 1 COMPACIENT OF COMPACIENT Acute Tox. 4	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7	\$:
2.1 Classification Classification ac GHSO Eye Dam. 1 Eye Dam. 1 GHSO Acute Tox. 4 Acute Tox. 4	n of the substance or mixture ccording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation.	3 :
2.1 Classification Classification ad GHSO Eye Dam. 1 Comparison Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3	n of the substance or mixture ecording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled.	
2.1 Classification Classification ad GHSO Eye Dam. 1 COMPACTION CONTROL Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3 Aquatic Chronic	n of the substance or mixture coording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H335 May cause respiratory irritation. 3 H412 Harmful to aquatic life with long	
2.1 Classification Classification ad GHSO Eye Dam. 1 Eye Dam. 1 GHSO Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3 Aquatic Chronic 2.2 Label element	n of the substance or mixture coording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H335 May cause respiratory irritation. 3 H412 Harmful to aquatic life with long	
2.1 Classification Classification ad GHSO Eye Dam. 1 Comparison Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3 Aquatic Chronic C.2 Label element Labelling accord The substance is	n of the substance or mixture coording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H335 May cause respiratory irritation. 3 H412 Harmful to aquatic life with long nts ding to Regulation (EC) No 1272/2008: classified and labelled according to the C.	lasting effects.
2.1 Classification Classification ad GHSO Eye Dam. 1 Eye Dam. 1 Control Chronic Classification ad GHSO Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3 Aquatic Chronic C.2 Label element Labelling accord The substance is Hazard pictogra	n of the substance or mixture coording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H335 May cause respiratory irritation. 3 H412 Harmful to aquatic life with long nts ding to Regulation (EC) No 1272/2008: classified and labelled according to the C. ms: GHS05, GHS07	
2.1 Classification Classification ad GHSO Eye Dam. 1 Eye Dam. 1 Construction Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3 Aquatic Chronic Cabel element Labelling accord The substance is Hazard pictogra Signal word: Da	n of the substance or mixture coording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H335 May cause respiratory irritation. 3 H412 Harmful to aquatic life with long nts ting to Regulation (EC) No 1272/2008: classified and labelled according to the C. ms: GHS05, GHS07 mger	
2.1 Classification Classification ad GHSO Eye Dam. 1 Cure Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 STOT SE 3 Aquatic Chronic Labelling accord The substance is Hazard pictogra Signal word: Da Hazard statemen	n of the substance or mixture coording to Regulation (EC) No 1272/2008 5 H318 Causes serious eye damage. 7 H302 Harmful if swallowed. H332 Harmful if inhaled. H315 Causes skin irritation. H335 May cause respiratory irritation. 3 H412 Harmful to aquatic life with long nts ting to Regulation (EC) No 1272/2008: classified and labelled according to the C. ms: GHS05, GHS07 mger	

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	(Contd. of page 1)
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
	nary statements
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P3	12 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P3	52 IF ON SKIN: Wash with plenty of soap and water.
P304+P3	40 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P3	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	of packages where the contents do not exceed 125 ml
	ictograms GHS05, GHS07
	ord Danger
· Hazard st	
	uses serious eye damage.
	nary statements
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P3	
P305+P3	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
· 2.3 Other	
	f PBT and vPvB assessment:
	T - assessment not available.
• vPvB: vP	vB - assessment not available.
SECTIO	N 3: Composition/information on ingredients
• 3.1 Subst	
	Description:
	sodium dodecyl sulphate
	<i>tion number(s):</i>
	er: 205-788-1
· Descriptio	
• <i>Empirica</i> • <i>MW</i> : 288	l formula: C ₁₂ H ₂₅ O ₄ S Na .4
-	on (EC) No 648/2004 on detergents / Labelling for contents
anionic si	urfactants ≥30%

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly. Consult doctor if you feel unwell.
- After eye contact:

Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.

· After swallowing:

Wash out mouth instantly. Drink copious amounts of water and provide fresh air. Call for doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed Coughing

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Breathing difficulty

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents:
- CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- \cdot 5.2 Special hazards arising from the substance or mixture:
- In case of fire, the following can be formed, but not limited to:
- Carbon monoxide and carbon dioxide
- Sulphur oxides (SOx)
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust. Avoid contact with the eyes and skin.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to item 13. Pick up mechanically.
- 6.4 Reference to other sections
 See Section 7 for information on safe handling
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling: No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:
- Store under lock and key and with access restricted to technical experts or their assistants only. Keep receptacle tightly sealed and store in dry conditions.
- 7.3 Specific end use(s): No further relevant information available.
- SECTION 8: Exposure controls/personal protection
- · 8.1 Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see item 7.

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Individual protection measures, such as personal	(Contd. of pag protective equipment:
General protective and hygienic measures:	r
Keep away from foodstuffs, beverages and feed.	
Store protective clothing separately.	
Immediately remove all soiled and contaminated c	lothing
Avoid contact with the eyes and skin.	
Wash hands before breaks and at the end of work.	
Breathing equipment:	
Short term filter device:	
Filter P2.	
Hand protection:	
	istant to the product/ the substance/ the preparation. we material can be given for the product/ the preparation
	on of the penetration times, rates of diffusion and a
Material of gloves:	
The selection of the suitable gloves does not on quality and varies from manufacturer to manufacture	ly depend on the material, but also on further marks ırer.
Penetration time of glove material:	
÷ .	y the manufacturer of the protective gloves and has to
observed.	5 minutes along made of the fallowing material
suitable:	5 minutes gloves made of the following materials of
Nitrile rubber, NBR	
Chloroprene rubber, CR	
Exercise Function: Tightly sealed goggles. Body protection: Protective work clothing.	
Eye/face protection: Tightly sealed goggles.	25
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p 	
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: 	roperties
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: 	roperties Solid.
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: 	roperties Solid. White
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: 	roperties Solid. White Odourless
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: 	roperties Solid. White Odourless Not determined.
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: 	roperties Solid. White Odourless
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling 	roperties Solid. White Odourless Not determined. 204-207 °C
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met.
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical performation: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds no information available
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical performation: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds no information available no information available
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical propertied 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds no information available no information available > 150 °C
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical propertied 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. 1 preliminary test): > 120 seconds no information available no information available > 150 °C no information available
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical propertied 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: pH: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds no information available no information available > 150 °C
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical propertied 9.1 Information on basic physical and chemical p General Information: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: pH: Viscosity: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. 1 preliminary test): > 120 seconds no information available no information available > 150 °C no information available 6-9
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical performation: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: pH: Viscosity: Kinematic viscosity: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds no information available no information available > 150 °C no information available 6-9 no information available
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical performation: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: pH: Viscosity: Kinematic viscosity: Dynamic viscosity: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. 1 preliminary test): > 120 seconds no information available no information available > 150 °C no information available 6-9
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical performation: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: pH: Viscosity: Kinematic viscosity: Solubility: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. H preliminary test): > 120 seconds no information available no information available > 150 °C no information available 6-9 no information available no information available
 Eye/face protection: Tightly sealed goggles. Body protection: Protective work clothing. SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical performation: Physical state: Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and boiling range: Flammability: Lower and upper explosion limit: Lower: Upper: Flash point: Decomposition temperature: pH: Viscosity: Kinematic viscosity: Dynamic viscosity: 	roperties Solid. White Odourless Not determined. 204-207 °C no information available Based on available data, the classification criteria fflammable solids are not met. burning time (sample length 200 mm, UN test N. I preliminary test): > 120 seconds no information available no information available > 150 °C no information available 6-9 no information available

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· Vapour pressure at 20 °C:	0.0018 hPa
· Density and/or relative density:	
· Density:	Not determined
· Relative density:	no information available
· Particle characteristics	No information available
· 9.2 Other information	There are no more data available.
Appearance:	
· Form:	crystalline flakes or powder
• Important information on protection of hea environment, and on safety:	alth and
· Ignition temperature:	no information available
· Explosive properties:	Product is not explosive. However, formation o explosive dust-/air mixtures are possible.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity: No further relevant informations available
- · 10.2 Chemical stability:
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications. • 10.3 Possibility of hazardous reactions:
- As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion
- 10.4 Conditions to avoid: Avoid high temperatures, flames, sparks moisture

• 10.5 Incompatible materials: Avoid contact with strong oxidizers.

• 10.6 Hazardous decomposition products: In case of fire: See Section 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:
- · Acute toxicity: Harmful if swallowed or if inhaled.

· LD/LC50 values that are relevant for classification:

Oral	LD50	1,288 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50	>3.9 /mg/l - 1h (rat)

· Skin corrosion/irritation: Causes skin irritation.

- · Serious eye damage/irritation: Causes serious eye damage.
- Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- *Reproductive toxicity:* Based on available data, the classification criteria are not met.
- STOT-single exposure: May cause respiratory irritation.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards:
- Endocrine disrupting properties: Substance is not listed.

SECTION 12: Ecological information

- · 12.1 Toxicity:
- Aquatic toxicity:
- LC50/48h (Daphnia dubia): 5,55 mg/l

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NOEC (Daphnia dubia, 7 d): 0,684 mg/l

- Toxicity to fish: LC50/96h (pimephales promelas) 29 mg/l • **12.2 Persistence and degradability:** Biodegradability: 95 % in 28 d the product is readily biodegradable. 90% (28 d)
- **12.3 Bioaccumulative potential:** Bioconcentrationfactor: 3,9-5,3 (72h), Cyprinus carpio Distribution coefficient n-octanol/water logP o/w: 1,6
- · 12.4 Mobility in soil: No further relevant information available.
- 12.5 Results of PBT and vPvB assessment:
- · **PBT**: PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system. Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

- **Recommendation** Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- · Uncleaned packagings:
- · Recommendation:

Disposal of uncleaned packagings must be made according to official regulations in the same manner as the product.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class:	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
• 14.7 Maritime transport in bulk according instruments	to IMO Not applicable.	
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· UN ''Model Regulation'':

Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- Substance is not listed. · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- Substance is not listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.
- Regulation (EC) No 273/2004 on drug precursors Substance is not listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors Substance is not listed.
- · National regulations:
- Water hazard class: Water hazard class 2 (Assessment by list): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department
- · Contact: +49 6221 13840-35
- · Date of previous version: 02.05.2018
- · Version number of previous version: 3
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (REACH) vPvB: very persistent, very bioaccumulative substance (REACH) REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals CLP: Regulation on classification, labelling and packaging of substances and mixtures bw: body weight ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 GR