

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 2 of 17

Specific target organ toxicity - repeated exposure: STOT RE 2
 Hazardous to the aquatic environment: Aquatic Acute 1
 Hazardous to the aquatic environment: Aquatic Chronic 1
 Hazard Statements:
 Harmful if swallowed or if inhaled.
 Causes skin irritation.
 Causes serious eye irritation.
 May damage the unborn child. Suspected of damaging fertility.
 May cause damage to organs through prolonged or repeated exposure.
 Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Hazardous components which must be listed on the label
 lead

Signal word:

Danger

Pictograms:

GHS07-GHS08-GHS09



Hazard statements

H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P312	Call a POISON CENTER/doctor if you feel unwell.
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.
P308+P313	IF exposed or concerned: Get medical advice/attention.

Special labelling of certain mixtures

EUH208	Contains Resin acids and Rosin acids, fumarated, esters with glycerol. May produce an allergic reaction. Restricted to professional users.
--------	-----------------------------------------------------------------------------------------------------------------------------------------------

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 3 of 17

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
231-141-8	tin	50 - < 60 %
7440-31-5		
01-2119486474-28		
231-100-4	lead	30 - < 35 %
7439-92-1	Repr. Cat. 1, Repr. Cat. 3, Xn - Harmful, N - Dangerous for the environment R61-62-20/22-33-50-53	
082-001-00-6	Repr. 1A, Acute Tox. 4, Acute Tox. 4, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H360Df H302 H332 H373 H400 H410	
266-041-3	hydrogenated rosin	1 - < 5 %
65997-06-0		
01-2119487113-41		
403-700-8	N-(n-octyl)-2-pyrrolidone	1 - < 5 %
2687-94-7	C - Corrosive, N - Dangerous for the environment R34-51-53	
613-098-00-0	Skin Corr. 1B, Aquatic Chronic 2; H314 H411	
01-0000015335-74		
	ester of hydrogenated rosin	1 - < 5 %
65997-13-9		
484-050-2	Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	< 1 %
	N - Dangerous for the environment R50-53	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410	
01-0000020228-74		
307-051-0	Resin acids and Rosin acids, fumarated, esters with glycerol	< 1 %
97489-11-7	Xi - Irritant R36-43	
	Eye Irrit. 2, Skin Sens. 1; H319 H317	
231-131-3	silver	< 2 %
7440-22-4		
01-2119555669-21		

Full text of R, H and EUH phrases: see section 16.

Further Information

Product does not contain listed SVHC substances.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety)

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 4 of 17

data sheet if possible). Change contaminated clothing.
First aider: Pay attention to self-protection!

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. Get medical advice/attention.

After contact with skin

Remove contaminated, saturated clothing immediately. Wash immediately with: Water and soap. Get medical advice/attention.

After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

refer to chapter 2 and 11.

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

Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Sand
Extinguishing powder
D -powder

Unsuitable extinguishing media

Extinguishing media which must not be used for safety reasons:
Water
Full water jet
Water spray jet

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Gas/vapours, irritant. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Metal oxide smoke, toxic.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes.
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Use water spray jet to protect personnel and to cool endangered containers.
Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate affected area. Remove persons to safety.
Avoid exposure. Do not breathe smoke. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.
Wear personal protection equipment. (See section 8.)

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 5 of 17

containment or oil barriers). In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation.

Avoid exposure - obtain special instructions before use.

Do not breathe smoke. Do not breathe vapour/aerosol. Avoid contact with skin, eyes and clothes.

Wear suitable protective clothing. (See section 8.)

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Keep/Store only in original container.

Advice on storage compatibility

Do not store together with: Explosives. Gas. Oxidizing liquids. Oxidizing solids. Self-reactive substances and mixtures. Organic peroxides. Ammonium nitrate and preparations containing ammonium nitrate. Combustible toxic substances. Non-combustible toxic substances. Radioactive substances. Infectious substances.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Protect against: UV-radiation/sunlight. heat. moisture. frost.

storage temperature: refer to specifications.

7.3. Specific end use(s)

refer to chapter 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Lead other than lead alkyls	-	0.15		TWA (8 h)	CLAW
					STEL (15 min)	CLAW
7440-22-4	Silver, metallic	-	0.1		TWA (8 h)	WEL
					STEL (15 min)	WEL

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 6 of 17

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
7440-31-5	tin			
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m ³
Worker DNEL, acute		inhalation	systemic	11,75 mg/m ³
Worker DNEL, long-term		dermal	systemic	133,3 mg/kg bw/day
Worker DNEL, acute		dermal	systemic	133,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	3,476 mg/m ³
Consumer DNEL, acute		inhalation	systemic	3,476 mg/m ³
Consumer DNEL, long-term		dermal	systemic	80 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	80 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	80 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	80 mg/kg bw/day
65997-06-0	hydrogenated rosin			
Consumer DNEL, long-term		dermal	systemic	10 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	17 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	35 mg/m ³
Worker DNEL, long-term		inhalation	systemic	117 mg/m ³
Consumer DNEL, long-term		oral	systemic	10 mg/kg bw/day
2687-94-7	N-(n-octyl)-2-pyrrolidone			
Worker DNEL, long-term		inhalation	systemic	18,52 mg/m ³
	Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkanediylbis[12-hydroxyoctadecanamide]			
Worker DNEL, long-term		inhalation	systemic	9,8 mg/m ³
Worker DNEL, long-term		dermal	systemic	14 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m ³
Consumer DNEL, long-term		dermal	systemic	8,3 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	8,3 mg/kg bw/day
97489-11-7	Resin acids and Rosin acids, fumarated, esters with glycerol			
Worker DNEL, long-term		dermal	systemic	4 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	9 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	29 mg/m ³
7440-22-4	silver			

Safety Data Sheet

according to Regulation (EC) No 1907/2006

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 7 of 17

Worker DNEL, long-term	inhalation	systemic	0,1 mg/m ³
Consumer DNEL, long-term	inhalation	systemic	0,04 mg/m ³
Consumer DNEL, long-term	oral	systemic	1,2 mg/kg bw/day

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 8 of 17

PNEC values

CAS No	Substance	Value
Environmental compartment		Value
65997-06-0	hydrogenated rosin	
Soil		0,00045 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Marine water		0,00016 mg/l
Freshwater		0,0016 mg/l
Marine sediment		0,0007 mg/kg
Freshwater sediment		0,007 mg/kg
2687-94-7	N-(n-octyl)-2-pyrrolidone	
Freshwater sediment		0,08 mg/kg
Marine water		0,0012 mg/l
Micro-organisms in sewage treatment plants (STP)		4,6 mg/l
Marine sediment		0,008 mg/kg
Soil		0,06 mg/kg
Freshwater		0,012 mg/l
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]		
Micro-organisms in sewage treatment plants (STP)		10 mg/l
Freshwater sediment		55,54 mg/kg
Marine sediment		5,554 mg/kg
Soil		66,576 mg/kg
Marine water		0,0000146 mg/l
Freshwater		0,000146 mg/l
97489-11-7	Resin acids and Rosin acids, fumarated, esters with glycerol	
Marine sediment		0,155 mg/kg
Freshwater		0,1 mg/l
Micro-organisms in sewage treatment plants (STP)		1,26 mg/l
Freshwater sediment		1,55 mg/kg
Marine water		0,01 mg/l
Soil		0,249 mg/kg
7440-22-4	silver	
Freshwater		0,00004 mg/l
Marine water		0,00086 mg/l
Micro-organisms in sewage treatment plants (STP)		0,025 mg/l
Freshwater sediment		438,13 mg/kg
Marine sediment		438,13 mg/kg
Soil		1,41 mg/kg

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 9 of 17

8.2. Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

The usual precautions for handling chemicals should be considered.
Keep away from food, drink and animal feedingstuffs.
Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff.
Wash hands before breaks and after work. Protect skin by using skin protective cream. Take off contaminated clothing and wash it before reuse. Street clothing should be stored separately from work clothing. Contaminated work clothing should not be allowed out of the workplace.

Eye/face protection

Recommended eye protection brand: Tightly sealed safety glasses. (DIN EN 166)

Hand protection

Wear suitable gloves. (DIN EN 374)
for coarse soldering works: heat insulating.
Before using check leak tightness / impermeability.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Protective clothing (heat-resistant)
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Respiratory protection necessary at:
insufficient ventilation.
exceeding exposure limit values
Suitable respiratory protective equipment: Particle filter device (DIN EN 143) Type: P2/3
The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Environmental exposure controls

No special precautionary measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Paste
Colour: metallic, grey
Odour: characteristic.

Test method

pH-Value: not determined

Changes in the physical state

Melting point: 179 °C
Initial boiling point and boiling range: not determined

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 10 of 17

Flash point: not determined

Explosive properties
none

Lower explosion limits: not determined

Upper explosion limits: not determined

Decomposition temperature: not determined

Oxidizing properties
none.Vapour pressure:
(at 20 °C) not determined

Density: not determined

Water solubility: not miscible

Solubility in other solvents
not determinedViscosity / dynamic:
(at 20 °C) not determinedViscosity / kinematic:
(at 20 °C) not determined

Flow time: not determined

Vapour density: not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

No information available.

10.2. Chemical stability

Stable under normal storage and handling conditions.

10.3. Possibility of hazardous reactions

Reacts with : Strong acid, Oxidising agent

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong. Strong acid. strong alkalis.

10.6. Hazardous decomposition productsCan be released in case of fire: Gas/vapours, irritant. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Metal oxide smoke, toxic.**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No data available.

Acute toxicity

Harmful if swallowed or if inhaled.

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 11 of 17

ATEmix calculated

ATE (oral) 1511,9 mg/kg; ATE (inhalative aerosol) 4,495 mg/l

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
7440-31-5	tin				
	oral	LD50	>2000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
	inhalative (4 h) aerosol	LC50	(>4,75) mg/l	Rat	ECHA Dossier
7439-92-1	lead				
	oral	ATE	500 mg/kg		
	inhalative vapour	ATE	11 mg/l		
	inhalative aerosol	ATE	1,5 mg/l		
65997-06-0	hydrogenated rosin				
	oral	LD50	>5000 mg/kg	Rat.	RTECS
	dermal	LD50	>2000 mg/kg	Rat.	MSDS extern.
2687-94-7	N-(n-octyl)-2-pyrrolidone				
	oral	LD50	2050 mg/kg	Rat	RTECS
	dermal	LD50	>2000 mg/kg	Rabbit.	RTECS
	Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]				
	oral	LD50	>2000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>2000 mg/kg		ECHA Dossier
	inhalative aerosol	LC50	>6,3 mg/l		ECHA Dossier
97489-11-7	Resin acids and Rosin acids, fumarated, esters with glycerol				
	oral	LD50	>2000 mg/kg	Rat. (OECD 401)	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rat. (OECD 402)	ECHA Dossier
7440-22-4	silver				
	oral	LD50	>2000 mg/kg	Rat	ECHA Dossier
	dermal	LD50	>2000 mg/kg	Rat	ECHA Dossier
	inhalative (4 h) aerosol	LC50	>5,16 mg/l	Rat	ECHA Dossier

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Based on available data, the classification criteria are not met.

May cause sensitisation especially in sensitive humans.

STOT-single exposure

Based on available data, the classification criteria are not met.

Severe effects after repeated or prolonged exposure

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 12 of 17

May cause damage to organs through prolonged or repeated exposure. (lead)
Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide] (EC No. 484-050-2):
Subacute oral toxicity:
Exposure time: 28d
Species: Wistar Rat.
Method: no guideline mentioned
Result: NOAEL = >1000 mg/kg(bw)/day
literature information: ECHA Dossier

Carcinogenic/mutagenic/toxic effects for reproduction

May damage the unborn child. Suspected of damaging fertility. (lead)
lead (CAS No. 7439-92-1):
In vivo mutagenicity/genotoxicity Evidence exists for in-vivo mutagenicity.
Carcinogenicity: LOAEL = >250 ppm (Rat; EPA OTS 798.332; 104 weeks)
Reproductive toxicity: NOAEL = 250 mg/L (Rat; 60d)
literature information: ECHA Dossier

N-(n-octyl)-2-pyrrolidone (CAS-No.: 2687-94-7):
In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.
literature information: ECHA Dossier

Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide] (EC No. 484-050-2):
In-vitro mutagenicity: No experimental indications of mutagenicity in-vitro exist.
Reproductive toxicity:
Species: CrI:WI(Han) Rat.
Method: no guideline mentioned
Result: NOAEL = >1000 mg/kg/day
literature information: ECHA Dossier

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available.

SECTION 12: Ecological information**12.1. Toxicity**

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 13 of 17

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
2687-94-7	N-(n-octyl)-2-pyrrolidone					
	Acute fish toxicity	LC50	17,8 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier
	Acute algae toxicity	ErC50	19,5 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier
	Acute crustacea toxicity	EC50	19,1 mg/l	48 h	Daphnia magna	ECHA Dossier
	Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]					
	Acute fish toxicity	LC50	(>0,024) mg/l	96 h	Cyprinus carpio	ECHA Dossier
	Acute algae toxicity	ErC50	(0,025) mg/l	72 h	Selenastrum capricornutum	ECHA Dossier
	Acute crustacea toxicity	EC50	(>0,024) mg/l	48 h	Daphnia magna	ECHA Dossier
	Algae toxicity	NOEC	(0,0073) mg/l	3 d	Algae	ECHA Dossier
	Crustacea toxicity	NOEC	(>0,024) mg/l	21 d	Daphnia magna	ECHA Dossier
97489-11-7	Resin acids and Rosin acids, fumarated, esters with glycerol					
	Acute algae toxicity	ErC50	>100 mg/l	72 h	Desmodesmus subspicatus (OECD 201)	ECHA Dossier
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna (OECD 202)	ECHA Dossier

12.2. Persistence and degradability

CAS No	Chemical name				
	Method	Value	d	Source	
	Evaluation				
65997-06-0	hydrogenated rosin				
	OECD Guideline 301 B	0,95%	28	ECHA Dossier	
	Product is not easily biodegradable.				
	Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]				
	no guideline followed	7%	28	MSDS extern.	
	Product is not easily biodegradable.				

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
	Reaction mass of 12-hydroxy-N-[2-[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-[(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]	>6,5

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV,

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 14 of 17

allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to EAKV:

Waste disposal number of waste from residues/unused products

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing dangerous substances
Classified as hazardous waste.

Waste disposal number of used product

160303 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; inorganic wastes containing dangerous substances
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150202 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; absorbents, filter materials, wiping cloths and protective clothing; absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
Classified as hazardous waste.


Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

Recommended cleaning agent: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number:</u>	UN 3077
<u>14.2. UN proper shipping name:</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead; Reaction mass of 12-hydroxy-N-[2- [(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2- [(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide])
<u>14.3. Transport hazard class(es):</u>	9
<u>14.4. Packing group:</u>	III
Hazard label:	9
	
Classification code:	M7
Special Provisions:	274 335 601
Limited quantity:	5 kg
Transport category:	3
Hazard No:	90
Tunnel restriction code:	E

Inland waterways transport (ADN)

<u>14.1. UN number:</u>	UN 3077
<u>14.2. UN proper shipping name:</u>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (lead; Reaction mass of 12-hydroxy-N-[2- [(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2- [(1-oxooctyl)amino]alkyl]octadecanamide and N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide])
<u>14.3. Transport hazard class(es):</u>	9

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

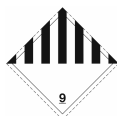
Page 15 of 17

14.4. Packing group:

III

Hazard label:

9



Classification code:

M7

Special Provisions:

274 335 601

Limited quantity:

5 kg

Marine transport (IMDG)

14.1. UN number:

UN 3077

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(lead, reaction mass of amides)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Marine pollutant:

YES

Special Provisions:

274, 335, 966, 967

Limited quantity:

5 kg

EmS:

F-A, S-F

Air transport (ICAO)

14.1. UN number:

UN 3077

14.2. UN proper shipping name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(lead, reaction mass of amides)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

9



Special Provisions:

A97 A158 A179

Limited quantity Passenger:

30 kg G

IATA-packing instructions - Passenger:

956

IATA-max. quantity - Passenger:

400 kg

IATA-packing instructions - Cargo:

956

IATA-max. quantity - Cargo:

400 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

yes



Danger releasing substance:

lead

Reaction mass of 12-hydroxy-N-[2-
[(1-oxodecyl)amino]alkyl]octadecanamide, 12-hydroxy-N-[2-
[(1-oxooctyl)amino]alkyl]octadecanamide and
N,N'-1,2-alkandiylbis[12-hydroxyoctadecanamide]

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 16 of 17

14.6. Special precautions for user

See section 8.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not relevant.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Additional information

The preparation is dangerous in the sense of Directive 1999/45/EC.

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

Directive 96/82/EC for danger control following severe accidents with dangerous substances: Appendix I, Part 2, No 9i, (Seveso II)

REACH 1907/2006 Appendix XVII, No 28/29/30, 63

National regulatory information

Employment restrictions: Observe employment restrictions for young people. Observe employment restrictions for child bearing mothers and nursing. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 2 - water contaminating

Additional information

Observe technical data sheet.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

Rev. 1.00; 12.05.2015, Initial release

Rev. 1.01; 12.06.2015, Indication of changes section: 3, 16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

S63-XF3+; P-S62-GF3+; S62-HF3+; S62-XF3+

Print date: 12.06.2015

Product code: 950703

Page 17 of 17

N/A: not applicable
 OSHA: Concerning the International Transport of Dangerous Goods by Rail)
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 SARA: Superfund Amendments and Reauthorization Act
 SVHC: substance of very high concern
 TRGS Technische Regeln für Gefahrstoffe
 TSCA: Toxic Substances Control Act
 VOC: Volatile Organic Compounds
 VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe
 WGK: Wassergefährdungsklasse

Relevant R-phrases (Number and full text)

20/22 Harmful by inhalation and if swallowed.
 33 Danger of cumulative effects.
 34 Causes burns.
 36 Irritating to eyes.
 43 May cause sensitisation by skin contact.
 50 Very toxic to aquatic organisms.
 51 Toxic to aquatic organisms.
 53 May cause long-term adverse effects in the aquatic environment.
 61 May cause harm to the unborn child.
 62 Possible risk of impaired fertility.

Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.
 H302+H332 Harmful if swallowed or if inhaled.
 H314 Causes severe skin burns and eye damage.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H360Df May damage the unborn child. Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H411 Toxic to aquatic life with long lasting effects.
 EUH208 Contains Resin acids and Rosin acids, fumarated, esters with glycerol. May produce an allergic reaction.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)