Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL ATF T-WS Lifetime Page 1/10

RAVENOL

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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

# 1.1. Product identifier

Trade name/designation:

**RAVENOL ATF T-WS Lifetime** 

### Article No.:

1211106

# **1.2.** Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture: Lubricant

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier (manufacturer/importer/only representative/downstream user/distributor): Ravensberger Schmierstoffvertrieb GmbH

Jöllenbecker Str. 2 33824 Werther D Telephone: +49 5203 9719 0 Telefax: +49 5203 9719 40 E-mail: kontakt@ravenol.de

Website: www.ravenol.de

E-mail (competent person): technik@ravenol.de

#### \* 1.4. Emergency telephone number

Abt. Technik (Produktsicherheit), 24h: +49 700 24 112 112 (Contract ID: RAV) , +49 5203 9719 0 (Mo-Do 7.30 Uhr - 16.30 Uhr, Fr 7.30 Uhr - 13.15 Uhr) (Only available during office hours.)

# **SECTION 2: Hazards identification**

# \* 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP]:

Hazard classes and hazard categories		Classification pro cedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

#### \* 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

#### Hazard components for labelling:

Reaction product of alkylthioalcohol and substituted phoshorus compound; Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Hazard state	Hazard statements for environmental hazards		
H412	Harmful to aquatic life with long lasting effects.		
Supplement	al Hazard information (EU)		
EUH208	Contains 4,4'-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction.		
EUH210	Safety data sheet available on request.		
Precautiona	ry statements Prevention		
P273	Avoid release to the environment.		
Precautionary statements Disposal			
P501	Dispose of contents/container to an appropriate recycling or disposal facility.		

RAVENOL

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### 2.3. Other hazards

No data available

# SECTION 3: Composition / information on ingredients

#### \* 3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concen- tration
CAS No.: 72623-86-0 EC No.: 276-737-9 REACH No.: 01-2119474878-16	Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based Asp. Tox. 1 Danger H304	0 - < 2 Wt %
	Reaction product of alkylthioalcohol and substituted phoshorus compound Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Skin Corr. 1B H312-H314-H400-H410	0 - < 0.5 Wt %
	<b>4,4'-thiodiethylene hydrogen-2-octadecenyl succinate</b> Aquatic Chronic 2, Eye Irrit. 2, Skin Sens. 1 H317-H319-H411	0 - < 0.5 Wt %

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

# **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 data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. Consult a doctor immediately.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor immediately. After eve contact:

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion:

Rinse mouth thoroughly with water. Do NOT induce vomiting. Consult a doctor immediately.

#### Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

#### 4.2. Most important symptoms and effects, both acute and delayed No known symptoms to date.

#### 4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically. Observe risk of aspiration if vomiting occurs.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Carbon dioxide (CO2) Extinguishing powder alcohol resistant foam Use water spray jet to protect personnel and to cool endangered containers.

#### Unsuitable extinguishing media:

Full water jet

#### \* 5.2. Special hazards arising from the substance or mixture

During heating or in case of fire, toxic gases is possible.

The formation of combustible vapours is possible at temperatures above: Flash point

Safety Data Sheet according to Regulation (EC) No. 1907/2	006 (REACH)
RAVENOL ATF T-WS Lifetime	

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### Hazardous combustion products:

Carbon monoxide, Carbon dioxide (CO2), Nitrogen oxides (NOx), During heating or in case of fire, toxic gases is possible.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective clothing.

#### 5.4. Additional information

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

#### **Personal precautions:**

\*

Use personal protection equipment. Special danger of slipping by leaking/spilling product. Remove persons to safety.

#### **Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:

Remove persons to safety.

#### 6.1.2. For emergency responders

### Personal protection equipment:

Use personal protection equipment.

#### 6.2. Environmental precautions

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

#### For containment:

Suitable material for taking up: Sand, Kieselguhr, Universal binder, Chemical binding agents, containing acids

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up:

Remove from the water surface (e.g. skimming, sucking). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

#### Other information:

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

#### 6.4. Reference to other sections

Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

#### 6.5. Additional information

Clear spills immediately. Use appropriate container to avoid environmental contamination.

# **SECTION 7: Handling and storage**

#### \* 7.1. Precautions for safe handling

#### **Protective measures**

### Advices on safe handling:

#### Personal protection equipment: see section 8

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Clear spills immediately. Use appropriate container to avoid environmental contamination.

#### Fire prevent measures:

No special fire protection measures are necessary.

#### **Environmental precautions:**

Shafts and sewers must be protected from entry of the product.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) RAVENOL ATF T-WS Lifetime Page 4/10

RAVENOL

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions:

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

#### Requirements for storage rooms and vessels:

Suitable container/equipment material: Floors should be impervious, resistant to liquids and easy to clean. Shafts and sewers must be protected from entry of the product. Keep/Store only in original container.

#### Hints on storage assembly:

not required

**Storage class:** 10 – Combustible liquids that cannot be assigned to any of the above storage classes **Further information on storage conditions:** 

Store in a cool dry place. Keep away from heat.

#### 7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

# **SECTION 8: Exposure controls/personal protection**

#### \* 8.1. Control parameters No data available

# \* 8.2. Exposure controls

**8.2.1. Appropriate engineering controls** See section 7. No additional measures necessary.

#### 8.2.2. Personal protection equipment



#### Eye/face protection:

During transfer: Eye glasses with side protection Wear eye/face protection. DIN EN 166

### Skin protection:

Hand protection

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), CR (polychloroprene, chloroprene rubber)

Thickness of the glove material: >= 0.4 mm

Breakthrough time (maximum wearing time) 480 min

Breakthrough times and swelling properties of the material must be taken into consideration.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

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.

Tested protective gloves must be worn: EN ISO 374

#### Suitable protective clothing: Protective clothing

#### **Respiratory protection:**

Usually no personal respirative protection necessary.

#### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

# 8.3. Additional information

Mineral oil mist limits: OSHA PEL - value 5 mg / m<sup>3</sup>, ACGIH STEL - value of 10 mg / m<sup>3</sup>

RAVENOL

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

## **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Appearance

\*

Physical state: Liquid Odour: characteristic Colour: red

#### Safety relevant basis data

parameter		at °C	Method	Remark
рН	not determined			
Melting point	not determined			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			
Decomposition temperature	not determined			
Flash point	218 °C			
Evaporation rate	not determined			
Auto-ignition temperature	not determined			
Upper/lower flammability or explosive limits	not determined			
Vapour pressure	not determined			
Vapour density	not determined			
Density	838 kg/m <sup>3</sup>	20 °C		
Bulk density	not determined			
Water solubility	The study does not need to be conducted because the substance is known to be insoluble in water.			
Partition coefficient: n-octanol/ water	not determined			
Dynamic viscosity	not determined			
Kinematic viscosity	29.1 mm²/s	40 °C		

#### 9.2. Other information

No data available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No known hazardous reactions. Risk of explosion if heated under confinement.

#### **10.2.** Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4. Conditions to avoid

To avoid thermal decomposition do not overheat.

#### 10.5. Incompatible materials

Materials to avoid: Acid, Oxidising agent, Reducing agent

#### **10.6.** Hazardous decomposition products

Hazardous combustion products: Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

#### \* 11.1. Information on toxicological effects

Acute oral toxicity:

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

\*

eversion date: 12.jul-2019         Acute dermal toxicity:         Based on available data, the classification criteria are not met.         Kute inhalation toxicity:         Based on available data, the classification criteria are not met.         Kin corrosion/irritation:         No irritant effect.         Frequently or prolonged contact with skin may cause dermal irritation.         Ferious eye damage/irritation:         No irritant effect.         response eye damage/irritation:         No irritant effect.         Tesponse eye damage/irritation:         No indications of human gem cell mutagenicity exist.         Jarcinogenicity:         No indications of human reproductive toxicity exist.         TOT-single exposure:         Based on available data, the classification criteria are not met.         Stpiration hazard:         For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         12.1. Toxicity         CAS No.       Substance name         Stars 20.3       bis(nonylphenyl)amine         L2.0       L2.00 mg/l 2 d         Ecso: 2.00 mg/l 3 d         Valuatic toxicity:         Harmful to aquite life with long lasting effects.         Vasessenent/classification:		F T-WS Lifetime	No. 1907/2006 (REACH)	Page
Acute inhalation toxicity:       Based on available data, the classification criteria are not met.         Based on available data, the classification criteria are not met.       Skin corrosion/irritation:         No irritant effect.       Frequently or prolonged contact with skin may cause dermal irritation.         Frequently or prolonged contact with skin may cause dermal irritation.       Serious eye damage/irritation:         No initiant effect.       Respiratory or skin sensitisation:         Contains 4.4'-thiodiethyleen hydrogen-2-octadecenyl succinate. May produce an allergic reaction.       Serious 2000 (Serie Contains 4.4'-thiodiethyleen hydrogen-2-octadecenyl succinate. May produce an allergic reaction.         Serious of human germ cell mutagenicity exist.       Statistication of human carcinogenicity.         No indications of human reproductive toxicity exist.       Storogenicity:         Stol and available data, the classification criteria are not met.       Storogenicity:         Rased on available data, the classification criteria are not met.       Storogenicity:         Rased on available data, the classification criteria are not met.       Storogenicity:         Storiation hazard:       For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information       LC50: >100 mg/l 4 d         EC50: 000 mg/l 2 d       EC50: 000 mg/l 2 d         EC50: 000 mg/l 3 d       Statistin aspiration hazard:	Revision dat	e: 12-Jul-2019 Version: 6 Print date: 1	12-Jul-2019	RAVENU
Based on available data, the classification criteria are not met. Acute inhalation toxicity: Based on available data, the classification criteria are not met. Skin corrosion/irritation: No irritant effect. Prequenty or prolonged contact with skin may cause dermal irritation. Serious eye damage/irritation: No irritant effect. Respiratory or skin sensitisation: Contains 4,4-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction. Germ cell mutagenicity: No indications of human germ cell mutagenicity exist. Carcinogenicity: No indications of human reproductive toxicity exist. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. SPTOT-repeated exposure: Based on available data, the classification criteria are not met. SPTOT-single exposure: Based on available data, the classification criteria are not met. SPTOT-single exposure: Based on available data, the classification criteria are not met. SPTOT-single exposure: Based on available data, the classification criteria are not met. SPTOT-single exposure: Based on available data, the classification criteria are not met. SPTOT-single exposure: Based on available data, the classification criteria are not met. Sptore in the single exposure: Distribution of human reproduct information 105878-20-3 bis(nonylphenyl)amine Logge > 1000 mg/l 2 d EC_{50}: 1000 mg/l 2 d	Acute derm	nal toxicity:		
Based on available data, the classification criteria are not met. Kin corrosion/irritation: No irritant effect. Trequently or prolonged contact with skin may cause dermal irritation. Serious eye damage/irritation: No irritant effect. Kespiratory or skin sensitisation: Contains 4,4'-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction. Sern cell mutagenicity: No indications of human gern cell mutagenicity exist. Carcinogenicity: No indications of human carcinogenicity. Keproductive toxicity: No indications of human reproductive toxicity exist. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Spiration hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs. SECTION 12: Ecological information 12.1. Toxicity CAS No. Substance name Toxicological Information 12.1. Toxicity: Harmful to auquite life with long lasting effects. Assessment/classification: The product has not been tested. 42.2. Persistence and degradability CAS No. Substance name Biodegradation Remark 36878-20-3 bis(nonylphenyl)amine No Sidegradation: No readily biodegradable (according to OECD criteria) 12.2. Persistence and degradability CAS No. Substance name Biodegradation Remark 36878-20-3 bis(nonylphenyl)amine No Sidegradation: No readily biodegradable (according to OECD criteria) 12.3. Bioaccumulation: The product has not been tested. 12.4. Mobility in soil The product has not been tested. 12.5. Results of PBT and vPvB assessment			eria are not met.	
Skin corrosion/irritation:         No irritant effect.         Frequently or prolonged contact with skin may cause dermal irritation.         Serious eye damage/irritation:         No irritant effect.         Respiratory or skin sensitisation:         Contains 4.4'-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction.         Serious eye damage/irritation:         No indications of human germ cell mutagenicity exist.         Carcinogenicity:         No indications of human reproductive toxicity exist.         STOT-single exposure:         Based on available data, the classification criteria are not met.         Spiration hazard:         For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         12.1. Toxicity         CAS No.       Substance name         Toxicological information         368/78-20-3       bis(nonylphenyl)amine         LCsgo: >100 mg/l 2 d         Ecg: >100 mg/l 2 d         Ecg: >00 mg/l 3 d         Vaquatic toxicity:         Harmful to aquatic life with long lasting effects.         Sessement/classification:         The product has not been tested.         Xidditional ecotoxicological information:         Do not allow uncontrolled d				
No inritant effect. Frequently or prolonged contact with skin may cause dermal irritation. Serious eye damage/irritation: No inritant effect. Respiratory or skin sensitisation: Contains 4.4'-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction. Germ cell mutagenicity: No indications of human germ cell mutagenicity exist. Carcinogenicity: No indications of human carcinogenicity. Reproductive toxicity: No indications of human reproductive toxicity exist. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. Spiratory hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs. SECTION 12: Ecological information L2.1. Toxicity CAS No. Substance name Toxicological information Basesonsent/classification: The product has not been tested. L2.4. Mobility in soil No treadily biodegradable (according to OECD criteria) L2.3. Bioaccumulative potential CAS No. Substance name Log Kow Bioconcentration factor (B 36878-20-3 bis(nonylphenyl)amine No Sidegradation: No treadily biodegradable (according to OECD criteria) L2.4. Mobility in soil The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.5. Results of PBT and vPvB assessment			eria are not met.	
Frequently or prolonged contact with skin may cause dermal irritation.         Serious eye damage/irritation:         No irritant effect.         Respiratory or skin sensitisation:         Contains 44-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction.         Serious of human germ cell mutagenicity exist.         Sarcinogenicity:         No indication of human carcinogenicity.         Reproductive toxicity:         No indications of human carcinogenicity.         Reproductive toxicity:         No indications of human reproductive toxicity exist.         STOT-single exposure:         Based on available data, the classification criteria are not met.         Spiration hazard:         For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         12.1. Toxicity         GAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         LC5go: >100 mg/l 4 d         EC5go: >100 mg/l 2 d         EC5go: >100 mg/l 2 d         EC5go: >100 mg/l 3 d         Aquatic toxicity:         Harmful to aquatic life with long lasting effects.         Assessment/classification:         The product has not been tested.         Additional ecotoxicological in		· · ·		
No irritani effect. <sup>-</sup> Respiratory or skin sensitisation: Contains 4,4-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction. Serm cell mutagenicity: No indications of human carcinogenicity. Reproductive toxicity: No indication of human carcinogenicity. Reproductive toxicity: No indications of human reproductive toxicity exist. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. SECTION 12: ECological information L2.1. Toxicity CAS No. Substance name Cas avaitable formation: Do not allow uncontrolled discharge of product into the environment. L2.2. Persistence and degradability CAS No. Substance name Sidegradation: No Sidegradation: No Sidegradation: No Sidegradation: No Sidegradation: Cas No. Substance name Sidegradabile (according to OECD criteria) L2.4. Substance name Sidegradabile (according to OECD criteria) L3.5. Secundation / Evaluation: The product has not been tested. L2.4. Mobil			cause dermal irritation.	
Respiratory or skin sensitisation:         Contains 4,4'-thiodiethyliene hydrogen-2-octadecenyl succinate. May produce an allergic reaction.         Serm cell mutagenicity:         No indications of human agern cell mutagenicity exist.         Carcinogenicity:         No indications of human carcinogenicity.         Reproductive toxicity:         No indications of human carcinogenicity.         Reproductive toxicity:         No indications of human carcinogenicity.         Store of the sto				
Contains 4,4°-thiodiethylene hydrogen-2-octadecenyl succinate. May produce an allergic reaction. Germ cell mutagenicity: No indications of human germ cell mutagenicity exist. Carcinogenicity: No indications of human reproductive toxicity exist. Seproductive toxicity: No indications of human reproductive toxicity exist. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-single exposure: SECTION 12: Ecological information 12.1. Toxicity CAS No. Substance name Toxicological information 36878-20-3 bis(nonylphenyl)amine LC50: >100 mg/l 4 d EC50: >100 mg/l 2 d EC50: >100 mg/l 2 d EC50: >100 mg/l 3 d Aquatic toxicity: Harmful to aquatic life with long lasting effects. Assessment/classification: The product has not been tested. Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment. 12.2. Persistence and degradability CAS No. Substance name Biodegradation Remark 36878-20-3 bis(nonylphenyl)amine No 30 30 30 30 30 30 30 30 30 30				
Germ cell mutagenicity:         No indications of human germ cell mutagenicity exist.         Carcinogenicity:         No indications of human carcinogenicity.         Reproductive toxicity:         No indications of human reproductive toxicity exist.         STOT-single exposure:         Based on available data, the classification criteria are not met.         STOT-repeated exposure:         Based on available data, the classification criteria are not met.         Appiration hazard:         For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         12:1. Toxicity         CAS No.       Substance name         Toxicological information         36878-20-3       bis(nonylphenyl)amine         LC50: >100 mg/l 4 d         EC50: >000 mg/l 3 d         Aquatic toxicity:         Harmful to aquatic life with long lasting effects.         Assessment/classification:         The product has not been tested.         Additional ecotoxicological information:         Do nallow uncontrolled discharge of product into the environment.         12.2. Persistence and degradability         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         No			ecenyl succinate May produc	ce an allergic reaction
No indications of human germ cell mutagenicity exist. Carcinogenicity: Carcinogenicity: No indication of human carcinogenicity. Reproductive toxicity: No indications of human carcinogenicity. Reproductive toxicity: Based on available data, the classification criteria are not met. Storarino hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs. SECTION 12: Ecological information L2.1. Toxicity CAS No. Substance name Coston (Coston) Section (Cos			lecenyi succinace. May produk	
No indication of human carcinogenicity. Reproductive toxicity: Reproductive toxicity: Reproductive toxicity: Reproductive toxicity: Reproductions of human reproductive toxicity exist. STOT-segueated exposure: Based on available data, the classification criteria are not met. Spiration hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs. SECTION 12: Ecological information  2.1. Toxicity  CAS No. Substance name Second data is information: The product has not been tested.  2.2. Persistence and degradability  CAS No. Substance name Sodegradation: Not readily biodegradable (according to OECD criteria)  3.36878-20-3 bis(nonylphenyl)amine No  3.36978-20-3 bis(nonylphenyl)amine No  3.36978-20-3 bis(nonylphenyl)amine No  3.36978-20-3 bis(nonylphenyl)amine No  3.36978-20-3 bis(nonylphenyl)amine No  3			ty exist.	
Reproductive toxicity:       No indications of human reproductive toxicity exist.         STOT-single exposure:       Based on available data, the classification criteria are not met.         Substration hazard:       For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information       It ovalidable data, the classification criteria are not met.         12:1. Toxicity       It ovalidable data, the classification criteria are not met.         26:10 12: Ecological information       It ovalidable data, the classification criteria are not met.         3:6878-20-3       bis(nonylphenyl)amine       It ovalidable data, the classification:         3:6878-20-3       bis(nonylphenyl)amine       It ovalidable data, the classification:         The product has not been tested.       Additional ecotoxicological information:         Do not allow uncontrolled discharge of product into the environment.       It ovalidable data, the classification:         Tot allow uncontrolled discharge of product into the environment.       It ovalidable data evaluable evaluable data evaluable ev				
No indications of human reproductive toxicity exist. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs. SECTION 12: Ecological information 12.1. Toxicity CAS No. Substance name Toxicological information 36878-20-3 bis(nonylphenyl)amine LC <sub>50</sub> : >100 mg/l 4 d EC <sub>50</sub> : >100 mg/l 2 d EC <sub>50</sub> : >100 mg/l 2 d EC <sub>50</sub> : >100 mg/l 3 d Aquatic toxicity: Harmful to aquatic life with long lasting effects. Assessment/classification: The product has not been tested. 2.2. Persistence and degradability CAS No. Substance name Biodegradation 36878-20-3 bis(nonylphenyl)amine No 36878-20-3 bis(nonylphenyl)amine No 36978-20-3 bis(nonylphenyl)amine T.6 1,584.89 Xecumulation / Evaluation: The product has not been tested. 32,4, Mobility in soil The product has not been tested. 32,4, Mobility in soil The product has not been tested. 32,4, Mobility in soil The product has not been tested. 32,5, Results of PBT and vPvB assessment		5 ,		
GTOT-single exposure:         Based on available data, the classification criteria are not met.         STOT-repeated exposure:         Based on available data, the classification criteria are not met.         Aspiration hazard:         For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         L2.1. Toxicity         CAS No.       Substance name         Toxicological information         LC50: >100 mg/l 4d         EC50: >100 mg/l 3d         Aquatic toxicity:         Harmful to aquatic life with long lasting effects.         Assessment/classification:         The product has not been tested.         Additional ecotoxicological information:         Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability         CAS No.       Substance name         Biodegradation:         Not readily biodegradable (according to OECD criteria)         L3.3. Bio-zerumulative potential         CAS No.       Substance name         Biodegradation:         Not readily biodegradable (according to OECD criteria)         L3.3. Bio-ecrumulative potential         CAS No.       Substance name         Biodegradation:	No indicati	ons of human reproductive toxicity (	exist.	
STOT-repeated exposure:         Based on available data, the classification criteria are not met.         Aspiration hazard:         For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         12.1. Toxicity         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         LC50: >100 mg/l 4d         EC50: >100 mg/l 2d         EC50: >000 mg/l 3 d         Aquatic toxicity:         Harmful to aquatic life with long lasting effects.         Assessment/classification:         The product has not been tested.         Additional ecotoxicological information:         Do not allow uncontrolled discharge of product into the environment.         12.2. Persistence and degradability         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         No       Siodegradation:         Not readily biodegradable (according to OECD criteria)         12.3. Bioaccumulative potential         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         No treadily biodegradable (according to OECD criteria)         12.3. Bioaccumulative potential         CAS No.       Substance name	STOT-single	e exposure:		
Based on available data, the classification criteria are not met. Aspiration hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs. SECTION 12: Ecological information 12.1. Toxicity CAS No. Substance name Toxicological information 36878-20-3 bis(nonylphenyl)amine LC50: >100 mg/l 4d EC50: >100 mg/l 2d EC50: >100 mg/l 3 d Aquatic toxicity: Harmful to aquatic life with long lasting effects. Assessment/classification: The product has not been tested. Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment. 12.2. Persistence and degradability CAS No. Substance name Biodegradation Remark 36878-20-3 bis(nonylphenyl)amine No Biodegradation: Not readily biodegradable (according to OECD criteria) 12.3. Bioaccumulative potential CAS No. Substance name Log Kow Bioconcentration factor (B 36878-20-3 bis(nonylphenyl)amine 7.6 1,588.89 Accumulation / Evaluation: The product has not been tested. 12.4. Mobility in soil The product has not been tested.			eria are not met.	
Aspiration hazard: For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.         SECTION 12: Ecological information         Toxicological information         Toxicological information         CAS No.       Substance name       Toxicological information         36878-20-3       bis(nonylphenyl)amine       LC50: >100 mg/l 4 d       EC50: >100 mg/l 2 d         Adatic toxicity:       Harmful to aquatic life with long lasting effects.       Assessment/classification:         The product has not been tested.       Additional ecotoxicological information:       Do not allow uncontrolled discharge of product into the environment.       L2.2. Persistence and degradability         CAS No.       Substance name       Biodegradation       Remark         36878-20-3       bis(nonylphenyl)amine       No       Soldegradation:       No       Soldegradation:       No       Soldegradation:       No       Soldegradation:       No       Soldegradation:       Soldegradat			aria are not met	
For viscosity data, see section 9. Observe risk of aspiration if vomiting occurs.  SECTION 12: Ecological information  L2.1. Toxicity  CAS No. Substance name CC50: >100 mg/l 4 d EC50: >100 mg/l 2 d EC50: >000 mg/l 3 d  Aquatic toxicity: Harmful to aquatic life with long lasting effects. Assessment/classification: The product has not been tested. Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment.  L2.2. Persistence and degradability  CAS No. Substance name Biodegradation No Sidegradation: Not readily biodegradable (according to OECD criteria)  L2.3. Bioaccumulative potential  CAS No. Substance name Cog Kow Bioconcentration factor (B 36878-20-3 bis(nonylphenyl)amine 7.6 1,584.89  Accumulation / Evaluation: The product has not been tested.  L2.4. Mobility in soil The product has not been tested.  L2.5. Results of PBT and vPvB assessment			ena are not met.	
L2.1. Toxicity         CAS No.       Substance name       Toxicological information         36878-20-3       bis(nonylphenyl)amine       LC50: >100 mg/l 4 d         EC50: >100 mg/l 2 d       EC50: 600 mg/l 3 d         Aquatic toxicity:       Harmful to aquatic life with long lasting effects.         Assessment/classification:       The product has not been tested.         Additional ecotoxicological information:       Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability       EAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine       No         Biodegradation:       No       Silodegradation         Not readily biodegradable (according to OECD criteria)       L2.3. Bioaccumulative potential         CAS No.       Substance name       Log Kow       Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.       Log Kow       Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.       Log Kow       Bioconcentration factor (B         36878-20-3       bis(nonylphenylbarine       7.6 <td></td> <td></td> <td>of aspiration if vomiting occu</td> <td>rs.</td>			of aspiration if vomiting occu	rs.
Zast No.       Substance name       Toxicological information         36878-20-3       bis(nonylphenyl)amine       LC50: >100 mg/l 4 d         EC50: >100 mg/l 2 d       EC50: >000 mg/l 3 d         Aquatic toxicity:       Harmful to aquatic life with long lasting effects.         Assessment/classification:       The product has not been tested.         Additional ecotoxicological information:       Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability       Kastance name       Biodegradation         36878-20-3       bis(nonylphenyl)amine       No         Siodegradation:       No       Siodegradation         Remark       36878-20-3       bis(nonylphenyl)amine       No         Siodegradation:       No       Siodegradation       Remark         36878-20-3       bis(nonylphenyl)amine       No       Siodegradation         Bioaccumulative potential       CAS No.       Substance name       Log Kow       Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.       Log Kow       Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumula	SECTION	12: Ecological informati	ion	
CAS No.       Substance name       Toxicological information         36878-20-3       bis(nonylphenyl)amine       LC <sub>50</sub> : >100 mg/l 4 d         Bis(nonylphenyl)amine       LC <sub>50</sub> : >100 mg/l 2 d         CAQuatic toxicity:       EC <sub>50</sub> : >100 mg/l 3 d         Harmful to aquatic life with long lasting effects.       Assessment/classification:         The product has not been tested.       Additional ecotoxicological information:         Do not allow uncontrolled discharge of product into the environment.       EC22. Persistence and degradability         CAS No.       Substance name       Biodegradation         36878-20-3       bis(nonylphenyl)amine       No         Biodegradation:       Not readily biodegradable (according to OECD criteria)       EC36         12.3. Bioaccumulative potential       CAS No.       Substance name       Log Kow         Bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.         12.4. Mobility in soil       The product has not been tested.         12.4. Mobility in soil       The product has not been tested.         12.5. Results of PBT and vPvB assessment       Log Kow		-	-	
Interview       Interview       Interview       Interview         Aquatic toxicity:       Interview       Interview       Interview         Harmful to aquatic life with long lasting effects.       Interview       Interview       Interview         Additional ecotoxicological information:       Do not allow uncontrolled discharge of product into the environment.       Interview       Interview         L2.2. Persistence and degradability       Interview       Interview       Interview       Interview         CAS No.       Substance name       Biodegradation       Remark         36878-20-3       bis(nonylphenyl)amine       No       Interview       Interview         L2.3. Bioaccumulative potential       Interview       Intervie			Toxicological info	ormation
EC 50: 600 mg/l 3 d         Aquatic toxicity:         Harmful to aquatic life with long lasting effects.         Assessment/classification:         The product has not been tested.         Additional ecotoxicological information:         Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability         CAS No. Substance name         36878-20-3       bis(nonylphenyl)amine         No         Biodegradation:         Not readily biodegradable (according to OECD criteria)         Log Kow         Bioconcentration factor (B         36878-20-3         bis(nonylphenyl)amine         CAS No. Substance name         Log Kow         Bioconcentration factor (B         CAS No.         Substance name         Log Kow         Bioconcentration factor (B         36878-20-3         bis(nonylphenyl)amine         7.6         Accumulation / Evaluation:         The product has not been tested.	26070 20 2			
Aquatic toxicity:         Harmful to aquatic life with long lasting effects.         Assessment/classification:         The product has not been tested.         Additional ecotoxicological information:         Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         Not readily biodegradable (according to OECD criteria)         L2.3. Bioaccumulative potential         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         Not readily biodegradable (according to OECD criteria)         L2.3. Bioaccumulative potential         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.         L2.4. Mobility in soil       The product has not been tested.         L2.5. Results of PBT and vPvB assessment       Log Kow	308/8-20-3	bis(nonylphenyl)amine	LC <sub>50</sub> : >100 mg/l 4	ld
Harmful to aquatic life with long lasting effects. Assessment/classification: The product has not been tested. Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment. L2.2. Persistence and degradability  CAS No. Substance name Biodegradation: No Biodegradation: Not readily biodegradable (according to OECD criteria)  L2.3. Bioaccumulative potential  CAS No. Substance name Log Kow Bioconcentration factor (B 36878-20-3 bis(nonylphenyl)amine 7.6 1,584.89  Accumulation / Evaluation: The product has not been tested. L2.4. Mobility in soil The product has not been tested. L3.5. Results of PBT and vPvB assessment	30878-20-3	bis(nonylphenyl)amine	EC <sub>50</sub> : >100 mg/l 2	2 d
Assessment/classification: The product has not been tested.         Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability         Modegradation         Remark         Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability         Modegradation         Remark         36878-20-3       bis(nonylphenyl)amine       No         Biodegradation: Not readily biodegradable (according to OECD criteria)         Log Kow       Bioconcentration factor (B 36878-20-3         bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation: The product has not been tested.         Log Kow       Bioconcentration factor (B 36878-20-3         bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation: The product has not been tested.       Log Kow       Bioconcentration factor (B 1,584.89         Accumulation / Evaluation: The product has not been tested.       L2.5. Results of PBT and vPvB	30878-20-3	bis(nonylphenyl)amine	EC <sub>50</sub> : >100 mg/l 2	2 d
The product has not been tested.   Additional ecotoxicological information:   Do not allow uncontrolled discharge of product into the environment.   L2.2. Persistence and degradability   CAS No. Substance name   36878-20-3 bis(nonylphenyl)amine   No   Biodegradation:   Not readily biodegradable (according to OECD criteria)   L2.3. Bioaccumulative potential   CAS No. Substance name   Log Kow Bioconcentration factor (B   36878-20-3 bis(nonylphenyl)amine   7.6 1,584.89   Accumulation / Evaluation:   The product has not been tested.   L2.4. Mobility in soil   The product has not been tested.   L2.5. Results of PBT and vPvB assessment	Aquatic tox	kicity:	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 c	2 d
Additional ecotoxicological information: Do not allow uncontrolled discharge of product into the environment.         L2.2. Persistence and degradability         CAS No.       Substance name       Biodegradation       Remark         36878-20-3       bis(nonylphenyl)amine       No       Image: State	Aquatic tox Harmful to	kicity: aquatic life with long lasting effects	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 c	2 d
A substance and degradability         CAS No.       Substance name       Biodegradation         36878-20-3       bis(nonylphenyl)amine       No       Image: Colspan="2">Remark         Biodegradation:       No       Image: Colspan="2">Substance name       No         Bioaccumulative potential       CAS No.       Substance name       Log Kow       Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.       Image: Colspan="2">Image: Colspan="2">Image: Colspan="2">Colspan="2"	Aquatic tox Harmful to Assessmen	kicity: aquatic life with long lasting effects t/classification:	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 c	2 d
CAS No.Substance nameBiodegradationRemark36878-20-3bis(nonylphenyl)amineNoNoBiodegradation: Not readily biodegradable (according to OECD criteria)NoL2.3. Bioaccumulative potentialLog KowBioconcentration factor (BCAS No.Substance nameLog KowBioconcentration factor (B36878-20-3bis(nonylphenyl)amine7.61,584.89Accumulation / Evaluation: The product has not been tested.The product has not been tested.Log KowL2.5. Results of PBT and vPvB assessmentLog KowLog Kow	Aquatic tox Harmful to Assessmen The produc Additional	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information:	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 c	2 d
36878-20-3       bis(nonylphenyl)amine       No         Biodegradation:       Not readily biodegradable (according to OECD criteria)         L2.3. Bioaccumulative potential       Log Kow         CAS No.       Substance name       Log Kow         36878-20-3       bis(nonylphenyl)amine       7.6         36878-20-3       bis(nonylphenyl)amine       7.6         Accumulation / Evaluation:       The product has not been tested.         L2.4. Mobility in soil       The product has not been tested.         L2.5. Results of PBT and vPvB assessment       Log Kow	Aquatic tox Harmful to Assessmen The produc Additional Do not allo	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 c	2 d
Biodegradation:         Not readily biodegradable (according to OECD criteria)         L2.3. Bioaccumulative potential         CAS No.       Substance name         36878-20-3       bis(nonylphenyl)amine         7.6       1,584.89         Accumulation / Evaluation:         The product has not been tested.         L2.4. Mobility in soil         The product has not been tested.         L2.5. Results of PBT and vPvB assessment	Aquatic tox Harmful to Assessmen The produc Additional Do not allo L2.2. Pers	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability	<b>EC</b> <sub>50</sub> : >100 mg/l 2 <b>EC</b> <sub>50</sub> : 600 mg/l 3 of s.	2 d 1
Not readily biodegradable (according to OECD criteria)         L.3. Bioaccumulative potential         CAS No.       Substance name       Log K <sub>OW</sub> Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation: The product has not been tested.       Log Kow       Bioconcentration factor (B         1.584.89       7.6       1,584.89         Accumulation / Evaluation: The product has not been tested.       7.6       1,584.89         Log Kow       8       8       1,584.89         Log Kow       8       1,584.89       1,584.89         Log Kow <t< td=""><td>Aquatic tox Harmful to Assessmen The product Additional Do not allo L2.2. Pers CAS No.</td><td>kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name</td><td>EC<sub>50</sub>: &gt;100 mg/l 2 EC<sub>50</sub>: 600 mg/l 3 of s. t into the environment. Biodegradation</td><td>2 d 1</td></t<>	Aquatic tox Harmful to Assessmen The product Additional Do not allo L2.2. Pers CAS No.	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation	2 d 1
L2.3. Bioaccumulative potential         CAS No.       Substance name       Log K <sub>OW</sub> Bioconcentration factor (B         36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       The product has not been tested.       Log Kow       Bioconcentration factor (B         1.1.584.89       1.584.89       1.584.89       1.584.89         Accumulation / Evaluation:       The product has not been tested.       1.584.89         L2.4. Mobility in soil       The product has not been tested.       1.584.89         L2.5. Results of PBT and vPvB assessment       1.584.89	Aquatic tox Harmful to Assessmen The produc Additional Do not allow L2.2. Pers CAS No. 36878-20-3	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation	2 d 1
CAS No.Substance nameLog K <sub>OW</sub> Bioconcentration factor (B36878-20-3bis(nonylphenyl)amine7.61,584.89Accumulation / Evaluation: The product has not been tested.1,584.89L2.4. Mobility in soil The product has not been tested.1,584.89L2.5. Results of PBT and vPvB assessment1,584.89	Aquatic tox Harmful to Assessmen The produc Additional Do not allo L2.2. Pers CAS No. 36878-20-3 Biodegrada	xicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of t into the environment. Biodegradation No	2 d 1
36878-20-3       bis(nonylphenyl)amine       7.6       1,584.89         Accumulation / Evaluation:       .       .         The product has not been tested.       .       .         L2.4. Mobility in soil       .       .         The product has not been tested.       .       .         L2.5. Results of PBT and vPvB assessment       .       .	Aquatic tox Harmful to Assessmen The product Additional Do not allor L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of t into the environment. Biodegradation No	2 d 1
Accumulation / Evaluation: The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.5. Results of PBT and vPvB assessment	Aquatic tox Harmful to Assessmen The produc Additional Do not allor L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD accumulative potential	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 c s. t into the environment. Biodegradation No criteria)	2 d d d Remark
The product has not been tested. L2.4. Mobility in soil The product has not been tested. L2.5. Results of PBT and vPvB assessment	Aquatic tox Harmful to Assessmen The produce Additional Do not allow L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa CAS No.	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD ccumulative potential Substance name	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation No criteria)	Remark
The product has not been tested.  L2.5. Results of PBT and vPvB assessment	Aquatic tox Harmful to Assessmen The produc Additional Do not allow L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa CAS No. 36878-20-3	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD ccumulative potential Substance name bis(nonylphenyl)amine	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation No criteria)	Remark
The product has not been tested.  L2.5. Results of PBT and vPvB assessment	Aquatic tox Harmful to Assessmen The product Additional Do not allow L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa CAS No. 36878-20-3 Accumulati	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD accumulative potential Substance name bis(nonylphenyl)amine on / Evaluation:	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation No criteria)	Remark
	Aquatic tox Harmful to Assessmen The product Additional Do not allor L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa CAS No. 36878-20-3 Accumulati The product	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD ccumulative potential Substance name bis(nonylphenyl)amine on / Evaluation: t has not been tested.	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation No criteria)	Remark
CAS No. Substance name Results of PBT and vPvB assessment	Aquatic tox Harmful to Assessmen The product Additional Do not allow L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa CAS No. 36878-20-3 Accumulati The product L2.4. Mob	kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD accumulative potential Substance name bis(nonylphenyl)amine on / Evaluation: t has not been tested. bility in soil	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of s. t into the environment. Biodegradation No criteria)	Remark
	Aquatic tox Harmful to Assessmen The product Additional Do not allow L2.2. Pers CAS No. 36878-20-3 Biodegrada Not readily L2.3. Bioa CAS No. 36878-20-3 Accumulati The product The product	Activity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD ccumulative potential Substance name bis(nonylphenyl)amine on / Evaluation: t has not been tested. bility in soil t has not been tested.	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of S. t into the environment. Biodegradation No criteria) Log K <sub>OW</sub> Bioo 7.6 1,58	Remark
36878-20-3         bis(nonylphenyl)amine         The substance in the mixture does not meet           PBT/vPvB criteria according to REACH, annex         PBT/vPvB criteria according to REACH, annex	Aquatic tox Harmful to Assessmen The product Additional Do not allow 12.2. Pers CAS No. 36878-20-3 Biodegrada Not readily 12.3. Bioa CAS No. 36878-20-3 Accumulati The product 12.4. Mob The product 12.5. Res	<pre>kicity: aquatic life with long lasting effects t/classification: t has not been tested. ecotoxicological information: w uncontrolled discharge of product sistence and degradability Substance name bis(nonylphenyl)amine tion: biodegradable (according to OECD accumulative potential Substance name bis(nonylphenyl)amine on / Evaluation: t has not been tested. bility in soil t has not been tested. ults of PBT and vPvB assess Substance name</pre>	EC <sub>50</sub> : >100 mg/l 2 EC <sub>50</sub> : 600 mg/l 3 of S. t into the environment. Biodegradation No criteria) Log Kow Biod 7.6 1,58	Remark Remark Sconcentration factor (BCF 4.89 nd vPvB assessment

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### 12.6. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### Waste treatment options

#### **Appropriate disposal / Product:**

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about waste disposal.

### Appropriate disposal / Package:

Non-contaminated packages may be recycled.

#### 13.2. Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

#### **SECTION 14: Transport information**

No dangerous good in sense of these transport regulations.

	Land transport (ADR/ RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO- TI / IATA-DGR)
:	14.1. UN-No.			
	No dangerous good in sense of these transport regulations.			

#### 14.2. UN proper shipping name

No dangerous g	ood in sense of	No dangerous good in sense of	No dangerous good in sense of	No dangerous good in sense of
these transport	regulations.	these transport regulations.	these transport regulations.	these transport regulations.
			*	

#### 14.3. Transport hazard class(es)

not relevant

\*

\*

#### 14.4. Packing group

not relevant

#### 14.5. Environmental hazards

not relevant

#### 14.6. Special precautions for user

not relevant

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No transport as bulk according to IBC Code.

# **SECTION 15: Regulatory information**

#### \* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU legislation

#### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive1. Hazard categories:

• E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

• E2 Hazardous to the Aquatic Environment in Category Chronic 2

Page 7/10

RAVENOL

Page 8/10

RAVENOL

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### 15.1.2. National regulations

#### [DE] National regulations

#### Störfallverordnung

#### for substances contained in the product:

- Hazard categories:
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

#### **Technische Anleitung Luft (TA-Luft)**

#### **Remark:**

To follow: 5.2.5.

#### Water hazard class (WGK)

#### WGK:

2 - deutlich wassergefährdend

#### Source:

Self-classification (mixture; calculation rule). Identification number 436

#### Technische Regeln für Gefahrstoffe

**TRGS 510** 

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### Berufsgenossenschaftliche Vorschriften (BGV)

Berufsgenossenschaftliche Informationen (BGI) 868 Berufsgenossenschaftliche Regeln (BGR) 189, 190, 192, 195

#### Other regulations, restrictions and prohibition regulations Altöl-Verordnung (AltölV)

# [DK] National regulations

#### Other regulations, restrictions and prohibition regulations

Lister over stoffer og processer, der anses for at være kræftfremkaldende

### FR] National regulations

#### Other regulations, restrictions and prohibition regulations

Tableaux de maladies professionnelles Nomenclature des installations classées pour la protection de l'environnement

#### [NL] National regulations

#### Other regulations, restrictions and prohibition regulations

Lijst van kankerverwekkende, mutagene, en voor de voortplanting giftige stoffen SZW Algemeene beoordelingsmethodiek Water (ABM) Nederlandse emissierichtlijn (NeR)

#### [CH] National regulations

## Other regulations, restrictions and prohibition regulations

Mengenschwelle (Schweiz - StFV) Gefahrencode Brandverhütung, BVD (Schweiz)

#### 15.2. Chemical Safety Assessment

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

# SECTION 16: Other information

#### 16.1. Indication of changes

- 1.4. Emergency telephone number
- 2.1. Classification of the substance or mixture
- 2.2. Label elements
- 3.2. Mixtures
- 5.2. Special hazards arising from the substance or mixture
- Personal precautions, protective equipment and emergency procedures 6.1.

#### Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) **RAVENOL ATF T-WS Lifetime**

Page 9/10

#### RAVENOL

#### Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

7.1.	Precautions for safe handling
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
10.5.	Incompatible materials
11.1.	Information on toxicological effects
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
14.1.	UN number
14.2.	UN proper shipping name
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
16 E	Delevient D. H. and Fill herease (Number and full text)

# 16.5. Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms See overview table at www.euphrac.eu For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

assessment, chapter R.20 (Table of terms and abbreviations).

#### 16.3. Key literature references and sources for data

67/548/EEC - Dangerous Substances Directive

1999/45/EEC - Dangerous Preparations Directive

EC 1907/2006 - REACH Regulation

1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006 Regulation (EC) No 1907/2006 (REACH), Annex II

European Chemicals Agency (ECHA), C & L classification and labeling inventory European Chemicals Agency (ECHA), ECHA CHEM Registered substances

OECD The Global Portal to Information on Chemical Substances (ChemPortal)

Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

# 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories		Classification pro cedure
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

#### 16.5. Relevant R-, H- and EUH-phrases (Number and full text) \*

Hazard statem	Hazard statements	
H304	May be fatal if swallowed and enters airways.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
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.	

#### 16.6. Training advice

No data available

Revision date: 12-Jul-2019 Version: 6 Print date: 12-Jul-2019

#### 16.7. Additional 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.

\* Data changed compared with the previous version