

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - GB



## LUB HIGH TEMP

Version 2.0      Revision Date: 07.02.2019

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

#### 1.1 Product identifier

Product name : LUB HIGH TEMP

Article-No. :

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

Use of the Sub-stance/Mixture : Grease

Recommended restrictions on use : Restricted to professional users.

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

Company : NTN-SNR ROULEMENTS  
1, rue des Usines - BP 2017  
74000 ANNECY France

Tel : +33 (0)4 50 65 30 00

Fax : +33 (0)4 50 65 32 91

E-mail address of person responsible for the SDS : fds@ntn-snr.fr  
Laboratory Service NTN-SNR Roulements

National contact :

#### 1.4 Emergency telephone number

Emergency telephone number : Emergency Tel. (Office hours) +33 (0)4 50 65 97 55  
Emergency Tel. (France) ORFILA (INRS) +33 (0)1 45 42 59 59  
Emergency Tel. (EU): 112 (Available 24 hours a day)

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412      Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273      Avoid release to the environment.

#### Additional Labelling

**EUH208** Contains 4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol. **May produce an allergic reaction.**

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mineral oil.  
Synthetic hydrocarbon oil  
polyurea

#### Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
polyurea	1266545-95-2  01-0000017722-71-0001 01-0000017722-71-0002 01-0000017722-71-0000	Aquatic Chronic4; H413		>= 2,5 - < 10
Phenol, isopropylated, phosphate (3:1)	68937-41-7 273-066-3  01-2119535109-41-XXXX	Repr.2; H361 STOT RE2; H373 Aquatic Chronic1; H410	M-Factor: 1/1	>= 1 - < 2,5

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4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol	68140-98-7 268-820-3	Skin Sens.1; H317		$\geq 0,1 - < 1$
triphenyl phosphate	115-86-6 204-112-2	Aquatic Acute1; H400 Aquatic Chronic2; H411	M-Factor: 1/1	$\geq 0,25 - < 1$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Obtain medical attention.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
Wash off immediately with plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Obtain medical attention.  
Never give anything by mouth to an unconscious person.

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

- Symptoms : Allergic appearance
- Risks : May cause an allergic skin reaction.



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If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up      :    Clean up promptly by sweeping or vacuum.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling      :    Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

Hygiene measures            :    Wash face, hands and any exposed skin thoroughly after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers      :    Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

Storage class (TRGS 510)      :    11, Combustible Solids

### 7.3 Specific end use(s)

Specific use(s)                :    Specific instructions for handling, not required.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Phenol, isopropylated, phosphate (3:1)	68937-41-7	AGW (Inhalable fraction)	1 mg/m <sup>3</sup>	DE TRGS 900 (2016-11-04)
Peak-limit: excursion factor (category)	2;(II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

##### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Residual oils (petroleum), hydrotreated; Baseoil -unspecified	Workers	Inhalation	Long-term systemic effects	2,7 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	5,6 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	1 mg/kg
O,O,O-triphenyl phosphorothioate	Workers	Inhalation	Long-term systemic effects	1,39 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,4 mg/kg
Phenol, isopropylated, phosphate (3:1)	Workers	Inhalation	Long-term systemic effects	0,145 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	700 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,416 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	2000 mg/kg bw/day
triphenyl phosphate	Workers	Skin contact	Acute local effects	16 mg/cm <sup>2</sup>
	Workers	Inhalation	Long-term systemic effects	5,2 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	5,55 mg/kg bw/day

##### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
O,O,O-triphenyl phosphorothioate	Sewage treatment plant	1 mg/l

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	Soil	2,37 mg/l
Phenol, isopropylated, phosphate (3:1)	Fresh water	0 mg/l
	Intermittent use/release	0,015 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	100 mg/kg
	Fresh water sediment	0,185 mg/kg dry weight (d.w.)
	Marine sediment	0,018 mg/kg dry weight (d.w.)
	Soil	2,5 mg/kg dry weight (d.w.)
triphenyl phosphate	Oral	1,85 mg/kg
	Fresh water	0,004 mg/l
	Intermittent use/release	0,003 mg/l
	Marine water	0,0004 mg/l
	Sewage treatment plant	5 mg/l
	Fresh water sediment	1,103 mg/kg dry weight (d.w.)
	Marine sediment	0,11 mg/kg dry weight (d.w.)
	Soil	0,218 mg/kg dry weight (d.w.)
	Oral	16,667 mg/kg

### 8.2 Exposure controls

#### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

#### Hand protection

Material : Nitrile rubber  
Protective index : Class 1

Remarks : Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance

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at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

### SECTION 9: Physical and chemical properties

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

Appearance	:	paste
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	No data available
pH	:	No data available
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Combustible Solids
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	< 0,001 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	0,90 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Solubility(ies)		
Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n-	:	No data available



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Auto-ignition temperature      :    No data available

Decomposition temperature      :    No data available

Viscosity

    Viscosity, dynamic            :    No data available

    Viscosity, kinematic         :    No data available

Explosive properties             :    Not explosive

Oxidizing properties             :    No data available

### 9.2 Other information

Sublimation point                :    No data available

Self-ignition                      :    No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions             :    No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid             :    No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid               :    No materials to be especially mentioned.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

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### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Product:

- Acute oral toxicity : Remarks: This information is not available.
- Acute inhalation toxicity : Remarks: This information is not available.
- Acute dermal toxicity : Symptoms: Redness, Local irritation

##### Components:

##### **polyurea:**

- Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

##### **Phenol, isopropylated, phosphate (3:1):**

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg  
GLP: no

##### **triphenyl phosphate:**

- Acute oral toxicity : LD50 (Rat): > 20.000 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg  
Method: OECD Test Guideline 402

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### **Skin corrosion/irritation**

#### **Product:**

Remarks: This information is not available.

#### **Components:**

##### **polyurea:**

Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

##### **Phenol, isopropylated, phosphate (3:1):**

Species: Rabbit  
Exposure time: 72 h  
Assessment: No skin irritation  
Result: No skin irritation  
GLP: no

##### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

Assessment: No skin irritation  
Result: No skin irritation

##### **triphenyl phosphate:**

Species: Rabbit  
Assessment: No skin irritation  
Method: OECD Test Guideline 404  
Result: No skin irritation  
GLP: yes

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: This information is not available.

#### **Components:**

##### **polyurea:**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

##### **Phenol, isopropylated, phosphate (3:1):**

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Species: Rabbit  
Assessment: No eye irritation  
Result: No eye irritation  
GLP: no

### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

Assessment: No eye irritation  
Result: No eye irritation

### **triphenyl phosphate:**

Species: Rabbit  
Assessment: No eye irritation  
Method: OECD Test Guideline 405  
Result: No eye irritation  
GLP: yes

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks: This information is not available.

#### **Components:**

##### **polyurea:**

Test Type: Maximisation Test  
Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: yes

##### **Phenol, isopropylated, phosphate (3:1):**

Species: Mouse  
Assessment: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 429  
Result: Did not cause sensitisation on laboratory animals.  
GLP: yes

##### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

Assessment: May cause sensitisation by skin contact.  
Result: May cause sensitisation by skin contact.

##### **triphenyl phosphate:**

Species: Guinea pig  
Assessment: Does not cause skin sensitisation.  
Method: OECD Test Guideline 406  
Result: Does not cause skin sensitisation.  
GLP: yes

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### Germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

#### Components:

##### **polyurea:**

Genotoxicity in vitro : Test Type: Ames test  
Species: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

: Test Type: Chromosome aberration test in vitro  
Species: Chinese hamster cells  
Method: OECD Test Guideline 473  
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

##### **triphenyl phosphate:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Species: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### Carcinogenicity

#### Product:

Remarks: No data available

#### Components:

##### **triphenyl phosphate:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

### Reproductive toxicity

#### Product:

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Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### Components:

#### **Phenol, isopropylated, phosphate (3:1):**

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments. Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

#### **triphenyl phosphate:**

Effects on foetal development : Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL:  $\geq$  200 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  200 mg/kg body weight  
Developmental Toxicity: NOAEL:  $\geq$  200 mg/kg body weight  
Embryo-foetal toxicity: NOAEL:  $\geq$  200 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

### **STOT - single exposure**

#### Components:

##### **polyurea:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

##### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

### **STOT - repeated exposure**

#### Components:

##### **polyurea:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Phenol, isopropylated, phosphate (3:1):**

Exposure routes: Ingestion

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Target Organs: ovaries, Testes, Liver, Adrenal gland  
Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Repeated dose toxicity**

#### **Product:**

Remarks: This information is not available.

#### **Components:**

##### **polyurea:**

Species: Rat  
NOAEL: 1.000 mg/kg  
Application Route: Oral  
Method: OECD Test Guideline 407

##### **triphenyl phosphate:**

Species: Rat  
NOAEL: 105 mg/kg  
Application Route: Oral  
Method: OECD Test Guideline 408

Species: Rabbit  
NOAEL: 1.000 mg/kg  
Application Route: Dermal

### **Aspiration toxicity**

#### **Product:**

This information is not available.

#### **Components:**

##### **polyurea:**

No aspiration toxicity classification

##### **Phenol, isopropylated, phosphate (3:1):**

No aspiration toxicity classification

##### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

No aspiration toxicity classification

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### triphenyl phosphate:

No aspiration toxicity classification

### Further information

#### Product:

Remarks: Information given is based on data on the components and the toxicology of similar products.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

- Toxicity to fish : Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available
- Toxicity to algae : Remarks: No data available
- Toxicity to microorganisms : Remarks: No data available

#### Components:

##### polyurea:

- Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h



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Test Type: Respiration inhibition  
Method: OECD Test Guideline 209  
GLP: yes

### Phenol, isopropylated, phosphate (3:1):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l  
Exposure time: 96 h  
Test Type: static test  
Remarks: Information given is based on tests on the mixture itself.
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,44 mg/l  
Exposure time: 48 h  
Test Type: semi-static test  
Remarks: Information given is based on tests on the mixture itself.
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 2,5 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes  
Remarks: Information given is based on tests on the mixture itself.
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC: 0,0031 mg/l  
Exposure time: 33 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0415 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211
- M-Factor (Chronic aquatic toxicity) : 1

### triphenyl phosphate:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,4 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,36 mg/l  
Exposure time: 48 h  
Test Type: static test
- Toxicity to algae : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,25

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mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

EL10 (*Pseudokirchneriella subcapitata* (green algae)): 0,25 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : NOEC (activated sludge): 100 mg/l  
Exposure time: 28 h

Toxicity to fish (Chronic toxicity) : NOEC: 0,037 mg/l  
Exposure time: 30 d  
Species: *Oncorhynchus mykiss* (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,254 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **polyurea:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not readily biodegradable.  
Biodegradation: 23,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
GLP: yes

##### **Phenol, isopropylated, phosphate (3:1):**

Biodegradability : Result: Not rapidly biodegradable  
Biodegradation: 17,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

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GLP: yes

### triphenyl phosphate:

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Readily biodegradable.  
Biodegradation: 83 - 94 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

#### Components:

##### **polyurea:**

Partition coefficient: n-octanol/water : log Pow: > 6 (20 °C)  
Method: OECD Test Guideline 117

##### **Phenol, isopropylated, phosphate (3:1):**

Partition coefficient: n-octanol/water : log Pow: 4,92 - 5,17 (25 °C)

##### **triphenyl phosphate:**

Bioaccumulation : Species: *Oryzias latipes* (Orange-red killifish)  
Exposure time: 18 d  
Concentration: 0,01 mg/l  
Bioconcentration factor (BCF): 144

Partition coefficient: n-octanol/water : log Pow: 4,6 (20 °C)

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

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Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### Components:

#### **Phenol, isopropylated, phosphate (3:1):**

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

#### **4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:**

Assessment : Non-classified vPvB substance. Non-classified PBT substance.

### 12.6 Other adverse effects.

#### Product:

Additional ecological information : Harmful to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

---

## SECTION 14: Transport information

### 14.1 UN number

ADR : Not regulated as a dangerous good

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**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.2 UN proper shipping name

**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

**ADR** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good

### 14.6 Special precautions for user

No special precautions required.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

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## SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that dep- : Not applicable

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lete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class (Germany) : WGK 2 significantly water endangering  
Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : Total dust:  
others: 9,41 %

Inorganic substances in powdered form:  
Not applicable  
Inorganic substances in vapour or gaseous form:  
Not applicable  
Organic Substances:  
portion Class 1: 1,69 %  
others: 88,9 %

Carcinogenic substances:  
Not applicable  
Mutagenic:  
Not applicable  
Toxic to reproduction:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 1,68 %  
Remarks: VOC content excluding water

### 15.2 Chemical safety assessment

This information is not available.

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### SECTION 16: Other information

#### Full text of H-Statements

- H317                            : May cause an allergic skin reaction.
- H361                            : Suspected of damaging fertility or the unborn child.
- H373                            : May cause damage to organs through prolonged or repeated exposure if swallowed.
- 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.
- H413                            : May cause long lasting harmful effects to aquatic life.

#### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

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**Classification of the mixture:**

Aquatic Chronic 3                      H412

**Classification procedure:**

Calculation method

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