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



# **LUB HIGH TEMP**

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## 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : LUB HIGH TEMP

Article-No. : 094061

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

Use of the : Grease

Substance/Mixture

Recommended restrictions

on use

: Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

NTN-SNR ROULEMENTS 1, rue des Usines - BP 2017 74000 ANNECY FRANCE

Tél: +33 (0)4 50 65 30 00 Fax: +33 (0)4 50 65 32 91

E-mail address audrey.bornes@ntn-snr.fr

Responsible/issuing person

Service Laboratoire NTN-SNR Roulements

**1.4 Emergency telephone number** Tel. urgence (Heure bureau): +33 (0)4 50 65 97 55

Emergency Tel.(France) ORFILA (INRS): +33 (0)1 45 42 59 59

#### 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.

Classification (67/548/EEC, 1999/45/EC)

cause long-term adverse effects in the

Dangerous for the environment aquatic environment.

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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.

#### 2.3 Other hazards

# 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 (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
polyurea	1266545-95-2 / 01- 0000017722- 71-0001 / 01- 0000017722- 71-0002 / 01- 0000017722- 71-0000 /	R53	Aquatic Chronic 4; H413	>= 2.5 - < 10
O,O,O-triphenyl phosphorothioate	597-82-0 209-909-9	R53	Aquatic Chronic 4; H413	>= 1 - < 2.5
Phenol, isopropylated, phosphate (3:1)	68937-41-7 273-066-3 / 01- 2119535109- 41-XXXX	Xn; R48/22 Repr.Cat.3; R62- R63 N; R51/53	Repr. 2; H361 STOT RE 2; H373 Aquatic Chronic 1; H410	>= 1 - < 2.5
triphenyl phosphate	115-86-6 204-112-2	N; R50/53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

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#### 4. First aid measures

#### 4.1 Description of first aid measures

If inhaled : 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 : Remove contaminated clothing. If irritation develops, get

medical attention.

In case of contact, immediately flush skin with plenty of water.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

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.

Never give anything by mouth to an unconscious person.

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

**Symptoms** : No information available.

Risks : None known.

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

**Treatment** : No information available.

#### 5. Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

: High volume water jet

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

: Fire may cause evolution of: Carbon oxides firefighting

Nitrogen oxides (NOx) Oxides of phosphorus

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Sulphur oxides

5.3 Advice for firefighters

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-contained

breathing apparatus.

Exposure to decomposition products may be a hazard to

health.

Further information : Standard procedure for chemical fires.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

#### 6. Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

(dust).

Avoid breathing dust.

Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform

respective authorities.

#### 6.3 Methods and materials 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.

#### 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.

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 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.

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

Requirements for storage

: Store in original container.

areas and containers

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.

7.3 Specific end use(s)

: Consult the technical guidelines for the use of this

substance/mixture.

# 8. Exposure controls/personal protection

# 8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
triphenyl phosphate	115-86-6	TWA	3 mg/m3	2005-04-06	GB EH40
triphenyl phosphate	115-86-6	STEL	6 mg/m3	2005-04-06	GB EH40

**DNEL** 

Phenol, isopropylated, : End Use: Workers

phosphate (3:1) Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 0.145 mg/m3

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 0.416 mg/kg bw/day

End Use: Workers

Exposure routes: Skin contact

Potential health effects: Acute local effects

Value: 16 mg/cm2

triphenyl phosphate : End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 5.2 mg/m3

End Use: Workers

Exposure routes: Skin contact

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Potential health effects: Long-term systemic effects

Value: 5.55 mg/kg bw/day

**PNEC** 

Phenol, isopropylated, phosphate (3:1)

: Fresh water Value: 0.29 µg/l

> Marine water Value: 0.029 µg/l

Intermittent use/release

Value: 0.29 μg/l

Fresh water sediment Value: > 112 mg/kg

Marine sediment

Value: > 0.0168 mg/kg

Soil

Value: > 0.1 mg/kg

Microbiological Activity in Sewage Treatment Systems

Value: 100 mg/kg

Oral

Value: 0.83 mg/kg

triphenyl phosphate : Fresh water

Value: 0.004 mg/l

Marine water Value: 0.0004 mg/l

Intermittent use/release Value: 0.003 mg/l

Sewage treatment plant

Value: 5 mg/l

Fresh water sediment Value: 1.103 mg/kg

Marine sediment Value: 0.11 mg/kg

Soil

Value: 0.218 mg/kg

Oral

Value: 16.667 mg/kg

# 8.2 Exposure controls

**Engineering measures** 

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Maintain air concentrations below occupational exposure standards.

Personal protective equipment

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

Filter type P

Hand protection : For prolonged or repeated contact use 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.
In case of contact through splashing:

: Nitrile rubber

Protective index Class 1

Eye protection : Tightly fitting safety goggles

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

handling.

Protective measures : The type of protective equipment must be selected according

to the concentration and amount of the dangerous substance

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.

# **Environmental exposure controls**

General advice : Do not allow contact with soil, surface or ground water.

If the product contaminates rivers and lakes or drains inform

respective authorities.

# 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form : 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

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Flammability (solid, gas) : Combustible Solids
Lower explosion limit : No data available
Upper explosion limit : No data available
Vapour pressure : < 0.001 hPa, 20 °C
Relative vapour density : No data available
Density : 0.90 g/cm3, 20 °C

Water solubility : insoluble

Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Auto-ignition temperature : No data available
Ignition temperature : No data available
Thermal decomposition : No data available
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 Bulk density : No data available

#### 10. Stability and reactivity

#### 10.1 Reactivity

None reasonably foreseeable.

## 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

Hazardous decomposition

products

: No decomposition if stored and applied as directed.

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# 11. Toxicological information

#### 11.1 Information on toxicological effects

#### **Product**

Acute inhalation toxicity : This information is not available.

Skin corrosion/irritation : This information is not available.

Serious eye damage/eye : This information is not available.

irritation

Respiratory or skin

sensitisation

: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro : No data available
Genotoxicity in vivo : No data available
Carcinogenicity : No data available
Reproductive toxicity : No data available
Teratogenicity : No data available

Repeated dose toxicity : This information is not available.

Aspiration toxicity : This information is not available.

Further information : Information given is based on data on the components and

the toxicology of similar products.

**Components:** 

polyurea:

Acute oral toxicity : LD50: > 2,000 mg/kg, Rat
Acute dermal toxicity : LD50: > 2,000 mg/kg, Rat

O,O,O-triphenyl phosphorothioate:

Acute oral toxicity : LD50: > 2,000 mg/kg, Rat

Skin corrosion/irritation : Rabbit, Result: No skin irritation, Classification: No skin

irritation

Serious eye damage/eye

irritation

: Rabbit, Result: No eye irritation, Classification: No eye

irritation

Respiratory or skin

sensitisation

: Classification: Does not cause skin sensitisation.

Aspiration toxicity : No aspiration toxicity classification

Phenol, isopropylated, phosphate (3:1):

Acute oral toxicity : LD50: > 20,000 mg/kg, Rat

Acute inhalation toxicity : LC50: > 200 mg/l, 1 h, Rat, vapour Acute dermal toxicity : LD50: > 10,000 mg/kg, Rabbit

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Skin corrosion/irritation : Rabbit, Result: No skin irritation, Classification: No skin

irritation

Serious eye damage/eye

irritation

: Rabbit, Result: No eye irritation, Classification: No eye

irritation

Respiratory or skin

sensitisation

Mouse, Result: Does not cause skin sensitisation., Classification: Does not cause skin sensitisation.

STOT - repeated exposure : Exposure routes: Ingestion

Target Organs: Adrenal gland, Testes

Assessment: The substance or mixture is classified as specific

target organ toxicant, repeated exposure, category 2.

Aspiration toxicity : No aspiration toxicity classification

triphenyl phosphate:

Acute oral toxicity : LD50: > 20,000 mg/kg, Rat, OECD Test Guideline 401

Acute inhalation toxicity : LC50: > 200 mg/l, 1 h, Rat, dust/mist, OECD Test Guideline

403, The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50: > 10,000 mg/kg, Rabbit, OECD Test Guideline 402

Skin corrosion/irritation : Rabbit, Result: No skin irritation, Classification: No skin

irritation, OECD Test Guideline 404, GLP: yes

Serious eye damage/eye

irritation

: Rabbit, Result: No eye irritation, Classification: No eye

irritation, OECD Test Guideline 405, GLP: yes

Respiratory or skin

sensitisation

Guinea pig, Result: Does not cause skin sensitisation.,

Classification: Does not cause skin sensitisation., OECD Test

Guideline 406, GLP: yes

Further information : Information given is based on data on the components and

the toxicology of similar products.

### 12. Ecological information

## 12.1 Toxicity

#### **Product:**

Toxicity to fish

Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Toxicity to daphnia and other

aquatic invertebrates
Toxicity to algae

No data available

. No data available

Toxicity to bacteria

140 data available

No data available

# Components:

polyurea:

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Toxicity to fish : LC50: > 100 mg/l, 96 h, Danio rerio (zebra fish), static test,

OECD Test Guideline 203, GLP: yes

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea), Immobilization, OECD Test Guideline 202, GLP: yes

O,O,O-triphenyl phosphorothioate:

Toxicity to fish : LC50: > 100 mg/l, 96 h, Brachydanio rerio (zebrafish), OECD

Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 100 mg/l, 48 h, Daphnia magna (Water flea),

Immobilization, OECD 202 T1

Toxicity to algae : EC50: > 100 mg/l, 72 h, Desmodesmus subspicatus

(green algae), OECD Test Guideline 201

Toxicity to bacteria : EC50: > 100 mg/l, 3 h, activated sludge, OECD 209

**Ecotoxicology Assessment** 

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Phenol, isopropylated, phosphate (3:1):

: LC50: 1.6 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), Toxicity to fish

static test.

Information given is based on tests on the mixture itself.

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 2.44 mg/l, 48 h, Daphnia magna (Water flea), semistatic test,

Information given is based on tests on the mixture itself.

Toxicity to algae EC50: > 2.5 mg/l, 96 h, Pseudokirchneriella subcapitata

(green algae), static test, OECD Test Guideline 201, GLP:

Information given is based on tests on the mixture itself.

M-Factor

Toxicity to fish (Chronic

toxicity)

NOEC: 0.0031 mg/l, 33 d, Pimephales promelas (fathead

minnow), OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates

(Chronic toxicity)

: NOEC: 0.0415 mg/l, 21 d, Daphnia magna (Water flea),

**OECD Test Guideline 211** 

triphenyl phosphate:

Toxicity to fish : LC50: 0.4 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)

Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 1.0 mg/l, 48 h, Daphnia magna (Water flea), static test

Toxicity to algae : EC50: 2 mg/l, 96 h, Pseudokirchneriella subcapitata

(green algae)

M-Factor

Toxicity to fish (Chronic

toxicity)

NOEC: <= 0.0014 mg/l, 90 d, Oncorhynchus mykiss

(rainbow trout)

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**Ecotoxicology Assessment** 

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

**Product:** 

Biodegradability

No data available : No data available

Physico-chemical

removability **Components:** 

polyurea:

Biodegradability : Result: Not rapidly biodegradable

O,O,O-triphenyl phosphorothioate:

Biodegradability : Result: Not rapidly biodegradable, OECD

Phenol, isopropylated, phosphate (3:1):

Biodegradability : Result: Readily biodegradable,

Taking into consideration the properties of several

components, the product is estimated to be biodegradable

according to OECD classification.

triphenyl phosphate:

Biodegradability : aerobic, 83 - 94 %, Result: Readily biodegradable, Exposure

time: 28 d, activated sludge, OECD 301 C

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation

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:** 

O,O,O-triphenyl phosphorothioate:

Bioaccumulation :

Due to the distribution coefficient n-octanol/water.

accumulation in organisms is possible.

triphenyl phosphate:

Bioaccumulation : Oryzias latipes (Orange-red killifish), Exposure time: 18 d,

Concentration: 0.01 mg/l, Bioconcentration factor (BCF): 144

12.4 Mobility in soil

**Product:** 

Mobility : No data available Distribution among : No data available

environmental compartments

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



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#### 12.5 Results of PBT and vPvB assessment

**Product:** 

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:** 

O,O,O-triphenyl phosphorothioate:

Assessment : This substance is not considered to be persistent,

bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating

(vPvB).

Phenol, isopropylated, phosphate (3:1):

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

triphenyl phosphate:

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

12.6 Other adverse effects

**Product:** 

Additional ecological

information

: Harmful to aquatic life with long lasting effects.

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water

courses or the soil.

: Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Empty containers can be landfilled, when in accordance with

the local regulations.

#### 14. Transport information

#### 14.1 UN number

**ADR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

# 14.2 Proper shipping name

ADR

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

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



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Not dangerous goods

#### 14.3 Transport hazard class

**ADR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

# 14.4 Packing group

**ADR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

IATA

Not dangerous goods

#### 14.5 Environmental hazards

**ADR** 

Not dangerous goods

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

#### 14.6 Special precautions for user

No special precautions required.

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

Remarks : Not applicable for product as supplied.

#### 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).

Major Accident Hazard

iviajoi Accident Hazard

Legislation

: 96/82/EC Update:

Not applicable

# 15.2 Chemical Safety Assessment

This information is not available.

## 16. Other information

Full text of R-phrases referred to under sections 2 and 3

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R48/22	Harmful: danger of serious damage to health be swallowed.	by prolonged exposure if		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.			
R53	May cause long-term adverse effects in the aq	uatic environment.		
R62	Possible risk of impaired fertility.			
R63	Possible risk of harm to the unborn child.			

#### Full text of H-Statements referred to under sections 2 and 3.

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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### **Further information**

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