

Version 1.3	Revision Date 02.09.2016	Print Date 02.09.207
1. Identification of the substar	nce/mixture and of the company/u	ndertaking
1.1 Product identifier		
Product name	: LUB HIGH TEMP	
Article-No.	: 094061	
1.2 Relevant identified uses of th	e substance or mixture and uses adv	ised 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	
	NTN-SNR ROULEMENTS 1, rue des Usines - BP 2017 74000 ANNECY FRANCE	
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2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic	toxicity,	Category 3
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Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment

H412: Harmful to aquatic life with long lasting effects. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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2.2 Label elements		
Labelling (REGULATION (EC) No 1272/200	8)
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 media

5.2 Special hazards arising from the substance or mixture

Specific hazards during	: Fire may cause evolution of:
firefighting	Carbon oxides
	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 b Use personal protective equipment. In the case of respirable dust and/or fund breathing apparatus. Exposure to decomposition products may health. 	es, use self-contained
Further information	: Standard procedure for chemical fires. Collect contaminated fire extinguishing w must not be discharged into drains.	ater separately. This

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.
	exposure limit is exceeded and/or in case of product release (dust). Avoid breathing dust.

6.2 Environmental precautions

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 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.
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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, : phosphate (3:1)	End Use: Workers 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 sys Value: 5.55 mg/kg bw/day	stemic effects				
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					
.2 Exposure controls						
Engineering measures						



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Maintain air concentrations	below occupational exposure standar	ds.
Personal protective equi	oment	
Respiratory protection	: Not required; except in case of Filter type P	faerosol formation.
Hand protection		s have to satisfy the 89/686/EEC and the standard ds amongst other things on the e type of glove and therefore has
	: Nitrile rubber Protective index Class 1	
Eye protection	: Tightly fitting safety goggles	
Hygiene measures	: Wash face, hands and any exp handling.	posed skin thoroughly after
Protective measures	: The type of protective equipme to the concentration and amou at the specific workplace. Choose body protection in rela concentration and amount of d the specific work-place.	ant of the dangerous substance
Environmental exposure	controls	
General advice	: Do not allow contact with soil, so lf the product contaminates rive respective authorities.	

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties Form : paste				
1 onn				
Colour	: brown			
Odour	: characteristic			
Odour Threshold	: No data available			
рН	: 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- octanol/water	: No data available	
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	
.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	:	No decomposition if stored and applied as directed.
products		



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Toxicological informatio	n
Information on toxicologic	al effects
Product	
Acute inhalation toxicity	: This information is not available.
Skin corrosion/irritation	: This information is not available.
Serious eye damage/eye irritation	: This information is not available.
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 phosphor	
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

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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, Cla irritation	assification: No skin
Serious eye damage/eye irritation	:	Rabbit, Result: No eye irritation, Cla irritation	ssification: No eye
Respiratory or skin sensitisation	:	Mouse, Result: Does not cause skin Classification: Does not cause skin	
STOT - repeated exposure	:	Exposure routes: Ingestion Target Organs: Adrenal gland, Teste Assessment: The substance or mixt target organ toxicant, repeated expo	ure is classified as specific
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/mis 403, The substance or mixture has r	
Acute dermal toxicity	:	LD50: > 10,000 mg/kg, Rabbit, OEC	D Test Guideline 402
Skin corrosion/irritation	:	Rabbit, Result: No skin irritation, Cla irritation, OECD Test Guideline 404,	
Serious eye damage/eye irritation	:	Rabbit, Result: No eye irritation, Cla irritation, OECD Test Guideline 405,	
Respiratory or skin sensitisation	:	Guinea pig, Result: Does not cause Classification: Does not cause skin s Guideline 406, GLP: yes	
Further information	:	Information given is based on data of the toxicology of similar products.	on the components and

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	No data available
Toxicity to algae :	
	No data available
Toxicity to bacteria :	
	No data available

Components:

polyurea :





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Toxicity to fish		> 100 mg/l, 96 h, Danio reri Test Guideline 203, GLP: y	
Toxicity to daphnia and other aquatic invertebrates		> 100 mg/l, 48 h, Daphnia r ilization, OECD Test Guidel	
O,O,O-triphenyl phosphorot	nioate :		
Toxicity to fish		> 100 mg/l, 96 h, Brachydai uideline 203	nio rerio (zebrafish), OECD
Toxicity to daphnia and other aquatic invertebrates		> 100 mg/l, 48 h, Daphnia r ilization, OECD 202 T1	nagna (Water flea),
Toxicity to algae		> 100 mg/l, 72 h, Desmode n algae), OECD Test Guide	•
Toxicity to bacteria	: EC50:	> 100 mg/l, 3 h, activated s	sludge, OECD 209
Ecotoxicology Assessment			
Chronic aquatic toxicity	: May ca	ause long lasting harmful eff	ects to aquatic life.
Phenol, isopropylated, phos	phate (3:1):	
Toxicity to fish	static t	1.6 mg/l, 96 h, Oncorhynch est, ation given is based on tests	
Toxicity to daphnia and other aquatic invertebrates	: EC50: static t	2.44 mg/l, 48 h, Daphnia m est,	agna (Water flea), semi-
Toxicity to algae	: EC50:	ation given is based on tests > 2.5 mg/l, 96 h, Pseudoki n algae), static test, OECD	rchneriella subcapitata
M-Factor	Inform : 1	ation given is based on tests	s on the mixture itself.
Toxicity to fish (Chronic toxicity)	: NOEC	: 0.0031 mg/l, 33 d, Pimepł w), OECD Test Guideline 2	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) triphenyl phosphate :		: 0.0415 mg/l, 21 d, Daphni Test Guideline 211	ia magna (Water flea),
Toxicity to fish	: LC50:	0.4 mg/l, 96 h, Oncorhynch	us mykiss (rainbow trout)
		oxic to aquatic organisms, m in the aquatic environment.	nay cause long-term adverse
Toxicity to daphnia and other aquatic invertebrates	: EC50:	1.0 mg/l, 48 h, Daphnia ma	gna (Water flea), static test
Toxicity to algae		2 mg/l, 96 h, Pseudokirchi n algae)	neriella subcapitata
M-Factor Toxicity to fish (Chronic toxicity)		: <= 0.0014 mg/l, 90 d, Onc ow trout)	orhynchus mykiss



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Ecotoxicology Assessmen	t	
Acute aquatic toxicity	: Very toxic to aquatic life.	
Chronic aquatic toxicity	: Very toxic to aquatic life with long last	ting effects.
12.2 Persistence and degradab	ility	
Product:		
Biodegradability	: Number of the second second	
Physico-chemical removability Components:	No data available : No data available	
polyurea :		
Biodegradability	: Result: Not rapidly biodegradable	
O,O,O-triphenyl phosphore	othioate :	
Biodegradability	: Result: Not rapidly biodegradable, OE	ECD
Phenol, isopropylated, pho	osphate (3:1) :	
Biodegradability	 Result: Readily biodegradable, Taking into consideration the properti components, the product is estimated according to OECD classification. 	
triphenyl phosphate :		
Biodegradability	: aerobic, 83 - 94 %, Result: Readily bi time: 28 d, activated sludge, OECD 3	
12.3 Bioaccumulative potential		
Product:		
Bioaccumulation	:	
	This mixture contains no substance c persistent, bioaccumulating and toxic contains no substance considered to very bioaccumulating (vPvB).	(PBT)., This mixture
Components:		
O,O,O-triphenyl phosphor Bioaccumulation		
	Due to the distribution coefficient n-oc accumulation in organisms is possible	
triphenyl phosphate : Bioaccumulation	: Oryzias latipes (Orange-red killifish), Concentration: 0.01 mg/l, Bioconcent	
12.4 Mobility in soil		
Product:		
Mobility Distribution among environmental compartments	: No data available : No data available s	



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12.5 Results of PBT and vPvB asse	essment	
Product:		
Assessment :	This substance/mixture contains no comporto be either persistent, bioaccumulative and very persistent and very bioaccumulative (v 0.1% or higher.	l toxic (PBT), or
Components:	-	
O,O,O-triphenyl phosphorothic		
Assessment :	This substance is not considered to be pers bioaccumulating and toxic (PBT)., This sub- considered to be very persistent and very b (vPvB).	stance is not
Phenol, isopropylated, phosph	nate (3:1) :	
	Non-classified PBT substance, Non-classified	ed vPvB substance
	Non-classified PBT substance, Non-classified	ed vPvB substance
12.6 Other adverse effects		
Product:		
Additional ecological : information	Harmful to aquatic life with long lasting effective	cts.

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



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Not dangerous goods		
14.3 Transport hazard class		
ADR Not dangerous goods		
IMDG		
Not dangerous goods		
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		
Not dangerous goods		
IATA		
Not dangerous goods		
14.6 Special precautions for use No special precautions requir		
	g to Annex II of MARPOL 73/78 and the	
Remarks	: Not applicable for product as suppli	ed.
15. Regulatory information		
15.1 Safety, health and environr mixture	nental regulations/legislation specific	for the substance or
REACH - Candidate List of	: This product does not contain subs	
Substances of Very High	concern (Regulation (EC) No 1907/	2006 (REACH), Article 57).
Concern for Authorisation (Article 59).		
(Alticle 59).		
Major Accident Hazard	: 96/82/EC Update:	

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 t swallowed.	by prolonged exposure if
R50/53	Very toxic to aquatic organisms, may cause lo in the aquatic environment.	ng-term adverse effects
R51/53	Toxic to aquatic organisms, may cause long-te aquatic environment.	erm adverse effects in the
R52/53	Harmful to aquatic organisms, may cause long the aquatic environment.	g-term adverse effects in
R53	May cause long-term adverse effects in the ac	quatic environment.
R62	Possible risk of impaired fertility.	
R63	Possible risk of harm to the unborn child.	
Full text of H-St	atements referred to under sections 2 and 3.	
H361	Suspected of damaging fertility or the unborn	child.
H373	May cause damage to organs through prolong if swallowed.	
H400	Very toxic to aquatic life	

11400	
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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