

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS #: 083163 TRANSMISSION AXLE 8 80W-90

Date of the previous version: 2016-03-09

Revision Date: 2016-05-25

Version 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	
Number	
Substance/mixture	

TRANSMISSION AXLE 8 80W-90 DHE Mixture

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

Identified uses

Transmission fluid.

1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00
	Fax: +33 (0)1 41 35 84 71

For further information, please contact:

Contact Point	HSE
E-mail Address	rm.msds-lubs@total.com

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48. - MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008 ***

For the full text of the H-Statements mentioned in this Section, see Section 2.2.***

Classification

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008***



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2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008***

Hazard Statements None***

Precautionary Statements None***

Supplemental Hazard Statements EUH210 - Safety data sheet available on request***

EUH208 - Contains Polysulfides, di-tert-butyl ; Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ; 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetradecanoate 4-oxide. May produce an allergic reaction***

2.3. Other hazards

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery. Should not be released into the environment.

Environmental properties

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Distillates (petroleum), solvent-dewaxed heavy paraffinic***	265-169-7***	01-2119471299-27	64742-65-0	5-<10	Asp. Tox. 1 (H304)
Polysulfides, di-tert-butyl***	273-103-3***	no data available	68937-96-2	2.5-<5	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***	-	01-2119493620-38	٨	1-<2	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Sens. 1 (H317)
Reaction products of alcohols, C14-18,C18 unsat;,esterified with phosphorus pentoxide and salted with amines,C12-14,-tert-alkyl***	-	01-2119978530-33	٨	1-<2	Aquatic Chronic 3 (H412)
Distillates (petroleum), hydrotreated light	265-158-7***	01-2119487077-29	64742-55-8	1-<2	Asp. Tox. 1 (H304)



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paraffinic***					
2-ethylhexyl	280-479-2***	no data available	83547-95-9	0.25-<1	Skin Irrit. 2 (H315)
10-ethyl-4-[[2-[(2-ethylhexyl)					Skin Sens. 1 (H317)
oxy]-2-oxoethyl]thio]-7-oxo-8					Aquatic Chronic 2 (H411)
-oxa-3,5-dithia-4-phosphatet					
radecanoate 4-oxide***					

Additional information Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

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

Section 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
4.2. Most important sympt	oms and effects, both acute and delayed
Eye contact	Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.
Skin contact	Not classified. May produce an allergic reaction. High pressure injection of the products

 Inhalation
 Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory

Ingestion Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician Trea

Treat symptomatically.

system.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media



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Suitable Extinguishing Media	Carbon dioxide (CO 2). ABC powder. Foam. Water spray or fog.
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
5.2. Special hazards arisir	g from the substance or mixture
Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.
5.3. Advice for fire-fighters	5
Special protective equipment for ire-fighters	Wear self-contained breathing apparatus and protective suit.
Other information	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Section 6: ACCIDENTAL RE	LEASE MEASURES
6.1. Personal precautions,	protective equipment and emergency procedures
General Information	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
6.2. Environmental precau	tions
General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and material	s for containment and cleaning up
Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4. Reference to other se	ctions
Personal Protective Equipment	See Section 8 for more detail.
Waste treatment	See section 13.
Section 7: HANDLING AND	STORAGE
7.1. Precautions for safe h	andling
Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in



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· · · · · · · · · · · · · · · · · · ·	well-ventilated areas. Do not breathe vapors or spray mist. Avoid contac and clothing.	ct with skin, eyes
Prevention of fire and explosion	Take precautionary measures against static discharges: Ground/bond and transfer/receiving equipment.	containers, tanks
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel expose contact with the product. Regular cleaning of equipment, work area and recommended. Wash hands before breaks and immediately after handl not use abrasives, solvents or fuels. Do not dry hands with rags that hav contaminated with product. Do not put product contaminated rags into v	l clothing is ing the product. Do ve been
7.2. Conditions for safe s	torage, including any incompatibilities	
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunder container tightly closed. Keep preferably in the original container. Other indication of the regulation label on the new container. Do not remove th the containers (even if they are empty). Design the installations in order emissions of product (due to seal breakage, for example) onto hot casir	wise reproduce all ne hazard labels of to avoid accidental

Materials to Avoid

Strong oxidizing agents.

7.3. Specific end uses

Specific use(s)

Exposure limits

No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m³ (highly refined)

contacts. Protect from frost, heat and sunlight. Protect from moisture.

Legend

See section 16

DNEL Worker (Industrial/Professional)

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), solvent-dewaxed heavy paraffinic*** 64742-65-0				5.4 mg/m³/8h (aerosol - inhalation)
Polysulfides, di-tert-butyl*** 68937-96-2			14.5 mg/m³ Inhalation 3.33 mg/kg bw/day Dermal	
Reaction products of 4-methyl-2-pentanol and diphosphorus			12.5 mg/kg/8h (dermal) 8.56 mg/m³/8h (inhalation)	



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pentasulfide,			(ECHA CHEM)	
propoxylated, esterified				
with diphosphorus				
pentaoxide, and salted by				
amines, C12-14-				
tert-alkyl***				
Departies and water of			1.70 man/ma2 hab a lation	
Reaction products of			1.76 mg/m ³ Inhalation	
alcohols, C14-18,C18			2.5 mg/kg bw/day Dermal	
unsat;,esterified with				
phosphorus pentoxide				
and salted with				
amines,C12-14,-tert-alkyl				

^				
Distillates (petroleum),				5.4 mg/m ³ /8h (aerosol -
hydrotreated light				inhalation)
paraffinic***				-
64742-55-8				
DNEL Consumer		•		
Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	-
Distillates (petroleum),				1.2 mg/m ³ /24h (aerosol -
solvent-dewaxed heavy				inhalation)
paraffinic***				
64742-65-0				
Polysulfides,			2.6 mg/m ³ Inhalation	
di-tert-butyl***			1.66 mg/kg bw/day	
68937-96-2			Dermal	
Reaction products of			6.25 mg/kg/24h (dermal)	
4-methyl-2-pentanol and			2.2 mg/m ³ /24h	
diphosphorus			(inhalation)	
pentasulfide,			0.25 mg/kg/24h (oral)	
propoxylated, esterified			(ECHA CHEM)	
with diphosphorus				
pentaoxide, and salted by				
amines, C12-14-				
tert-alkyl***				
Popotion products of			0 121 mg/m3 Inholation	
Reaction products of			0.434 mg/m ³ Inhalation	
alcohols, C14-18,C18			1.25 mg/kg bw/day	
unsat;,esterified with			Dermal	
phosphorus pentoxide			0.25 mg/kg bw/day Oral	
and salted with				
amines,C12-14,-tert-alkyl				
~~~~				
				4.0 mm m/mm 2/0.41 /
Distillates (petroleum),				1.2 mg/m ³ /24h (aerosol -
hydrotreated light				inhalation)
paraffinic***				
64742-55-8				
Predicted No Effect Cond	centration			

(PNEC)



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		<b>a</b>				
Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Polysulfides,	0.00024 mg/l fw	7589 mg/kg dw	1513 mg/kg dw		4.51 mg/l	6.66 mg/kg food
di-tert-butyl***	0000024 mg/l mw	fw				
68937-96-2	0.0000024 mg/l	758.9 mg/kg dw				
	or	mw				
Reaction products	0.0012 mg/l fw	3.13 mg/kg fw	2.54 mg/kg soil		24.33 mg/l	10 mg/kg food
of	0.00012 mg/l mw	0.313 mg/kg mw	dw			
4-methyl-2-pentanol						
and diphosphorus						
pentasulfide,						
propoxylated,						
esterified with						
diphosphorus						
pentaoxide, and						
salted by amines,						
C12-14- tert-alkyl***						
۸						
Reaction products	0.0024 mg/l fw	1085.06 mg/kg	880.82 mg/kg dw		32 mg/l	
of alcohols,	0.00024 mg/l mw	dw fw			_	
C14-18,C18	0.024 mg/l or	108.51 mg/kg dw				
unsat;,esterified with		mw				
phosphorus						
pentoxide and						
salted with						
amines,C12-14,-tert						
-alkyl***						
Ā						

8.2. Exposure controls

### **Occupational Exposure Controls**

Engineering Measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Personal Protective Equipment	
General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387), Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least.



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These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.***

#### **Environmental exposure controls**

**General Information** 

The product should not be allowed to enter drains, water courses or the soil.

# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Appearance Color Physical State @20°C Odor Odor Threshold		limpid brown liquid Characteristic No information available	
<u>Property</u> pH Melting point/range	<u>Values</u>	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Boiling point/boiling range		No information available	
Flash point	> <b>160 °C</b> > 320 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air	2 020 1	No information available No information available	
upper Lower Vapor Pressure Vapor density Relative density Density	0.895*** -*** 0.905*** 895*** - *** 905*** kg/m³	No information available No information available No information available No information available @ 15 °C @ 15 °C	ISO 12185*** ISO 12185***
Water solubility Solubility in other solvents logPow Autoignition temperature Decomposition temperature Viscosity, kinematic	130*** - 140*** mm2/s *** 17.2*** -*** 19.3*** mm2/s***		ISO 3104 ISO 3104***
Explosive properties Oxidizing Properties Possibility of hazardous reactions	Not explosive Not applicable No information available		

# 9.2. Other information



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Freezing Point		No information avail	able
Pour point ***	*** -32*** °C***	***	NF T 60-105***
Section 10: STABILITY AND	REACTIVITY		
10.1. Reactivity			
General Information	No information availa	able.	
10.2. Chemical stability			
Stability	Stable under recomn	nended storage conditions	ò.
10.3. Possibility of hazarde	ous reactions		
Hazardous Reactions	None under normal p	processing.	
10.4. Conditions to Avoid			
Conditions to Avoid	Heat (temperatures a	above flash point), sparks,	ignition points, flames, static electricity.
10.5. Incompatible Materia	als		
Materials to Avoid	Strong oxidizing age	nts.	
10.6. Hazardous Decompo	sition Products		
Hazardous Decomposition Product			on and thermolysis may produce gases of bon dioxide, various hydrocarbons, aldehydes
Section 11: TOXICOLOGICA		J	
11.1. Information on toxic	ological effects		
Acute toxicity Local effects Produc	ct Information		
Skin contact			ion. High pressure injection of the products iences even though no symptom or injury
Eye contact	. Not classified. The	supplier of some compon ssification as irritant is not	ents contained within this formulation has
Inhalation			ncentration may cause irritation of
Ingestion	. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and		

diarrhea.



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ATEmix (dermal)	27 253,00*** mg/kg***
ATEmix (inhalation-dust/mist)	63,00*** mg/l***
ATEmix (inhalation-vapor)	1 010,10*** mg/l***

# Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), solvent-dewaxed heavy paraffinic***	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5.53 mg/l (aerosol) (rat - OECD 403)
Polysulfides, di-tert-butyl***	= 6500 mg/kg (Rat)		
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***	LD50 2000 mg/kg bw (Rat - OECD TG 401)		-
Reaction products of alcohols, C14-18,C18 unsat;,esterified with phosphorus pentoxide and salted with amines,C12-14,-tert-alkyl***		LD50 > 2000 mg/kg (Rat - OECD 402)	
Distillates (petroleum), hydrotreated light paraffinic***	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl ]thio]-7-oxo-8-oxa-3,5-dithia-4-phosphatetra decanoate 4-oxide***		LD50 > 2000 mg/kg (Rabbit)	

# **Sensitization**

Sensitization	Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction. The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no sensitisation classification is required.
Specific effects	
Carcinogenicity Mutagenicity Reproductive toxicity	This product is not classified carcinogenic. This product is not classified as mutagenic. This product does not present any known or suspected reproductive hazards.
Repeated Dose Toxicity	
Subchronic toxicity	No information available.
Target Organ Effects (STOT)	
Other information	
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).
Section 12: ECOLOGICAL IN	NFORMATION

# 12.1. Toxicity

# Not classified.



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Acute aquatic toxicity - Product Information

No information available.

#### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), solvent-dewaxed heavy paraffinic*** 64742-65-0		EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	<b>g</b>
Polysulfides, di-tert-butyl*** 68937-96-2		EC50 (48h) > 1000 mg/L Daphnia magna	LC50 (96h) 250-500 mg/L Pimephales promelas (static) LC50 (96h) > 1000 mg/L Pimephales promelas (semi-static)	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl*** ^	EL50 (96h) > 15 mg (Selenastrum capricornutum - OECD 201) EC50 (96h) 6.4 mg/l ( Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 15 mg/l (Pseudokirchnerella subcapitata - OECD 201) EC50 (96h) 6.4 mg/L (Selenastrum capricornutum- OECD TG 201) (ECHA CHEM)	EL50 (48h) ca. 91.4 mg/l (Daphnia magna - OECD 202)	LL50 (96h) ca. 24 mg/l (Oncorhynchus mykiss - OECD 203)	
Reaction products of alcohols, C14-18,C18 unsat;,esterified with phosphorus pentoxide and salted with amines,C12-14,-tert-alkyl***	EL50 (72h) 2.4 mg/l (Pseudokirchnerella subcapitata - static - OECD201)	EL50(48h) 91 mg/l (Daphnia magna - static - OECD 202)		
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8	EL50 (72h) > 100 mg/l (Pseudokirchneriella subcapitata - OCDE 201)	EL50 (48h) > 10000 mg/L (Daphnia magna - OCDE 202)	LL50 (96h) > 100 mg/L (Oncorhynchus mykiss - OCDE 203)	
2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl) oxy]-2-oxoethyl]thio]-7-oxo-8 -oxa-3,5-dithia-4-phosphatet radecanoate 4-oxide*** 83547-95-9	EC50 (72h) 3.1 mg/l (Algae)	EC50 (48h) 12.5 mg/l (Daphnia magna)	LC50 (96h) 4.3 mg/l (Fish)	

#### Chronic aquatic toxicity - Product Information

No information available.

#### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum),		NOEL (21d) 10 mg/l	NOEL (14/28d) > 1000 mg/l	
solvent-dewaxed heavy		(Daphnia magna - OECD	(Oncorhynchus mykiss -	



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paraffinic***		211)	QSAR Petrotox)	
64742-65-0				
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl***	NOEC (96h) 1.7 mg/l (Pseudokirchnerella subcapitata - OECD 201) par NOEC (96h) 3.3 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (21d) 0.91 mg/l (Daphnia magna - OECD 211) NOEL (21d) 0.12 mg/l (Daphnia magna - OECD 211) EL50 (21d) 0.66 mg/l (Daphnia magna - OECD 211)	-	EC50 (3h) ca. 2433 mg/L (Activated Sludge, domestic - OECD TG 209) (ECHA CHEM)
Reaction products of alcohols, C14-18,C18 unsat;,esterified with phosphorus pentoxide and salted with amines,C12-14,-tert-alkyl***	NOELR (72h) 1 mg/l (Pseudokirchnerella subcapitata - static - OECD 201)			
Distillates (petroleum), hydrotreated light paraffinic*** 64742-55-8		NOEL (21d) 10 mg/l (Daphnia magna - OCDE 211)	NOEL (14/28d) >1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

### Effects on terrestrial organisms

No information available.

# 12.2. Persistence and degradability

#### General Information

No information available.

# 12.3. Bioaccumulative potential

**Product Information** 

No information available.

# logPow

No information available

#### Component Information

<u>component information</u>	
Chemical Name	log Pow
Reaction products of 4-methyl-2-pentanol and diphosphorus	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)
pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and	
salted by amines, C12-14- tert-alkyl*** - ^	
Reaction products of alcohols, C14-18,C18 unsat;,esterified with	5.7
phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl*** - ^	

12.4. Mobility in soil

Soil	Given its physical and chemical characteristics, the product generally shows low soil mobility.
Air	Loss by evaporation is limited.
Water	Insoluble. The product spreads on the surface of the water.



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12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

**General Information** No information available.

# Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.
EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.
Section 14: TRANSPORT INF	ORMATION

ection 7	14: 1	RANSP	ORTI	INFO	ORMA	ATION	1

ADR/RID_	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
ADN	Not regulated

# Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture_

**European Union** 



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Further information

H302 - Harmful if swallowed

H315 - Causes skin irritation

No information available

15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

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

Section 16: OTHER INFORMATION

H304 - May be fatal if swallowed and enters airways

#### H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H411 - 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*** Abbreviations, acronyms ACGIH = American Conference of Governmental Industrial Hygienists bw = body weight bw/day = body weight/day EC x = Effect Concentration associated with x% response GLP = Good Laboratory Practice IARC = International Agency for Research of Cancer LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals LL = Lethal Loading NIOSH = National Institute of Occupational Safety and Health NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration NOEL = No Observed Effect Level OECD = Organization for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material DNEL = Derived No Effect Level PNEC = Predicted No Effect Concentration dw = dry weightfw = fresh water

mw = marine water or = occasional release

Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

**REL:** Recommended exposure limit

TLV: Threshold Limit Values

Version 2



# TRANSMISSION AXLE 8 80W-90

Revision Date: 2016-05-25

Version 2

+	Sensitizer	*	Skin designation	
**	Hazard Designation	C:	Carcinogen	
M:	Mutagen	R:	Toxic to reproduction	

 Revision Date:
 2016-05-25

 Revision Note
 *** Indicates updated section.

 This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the Safety Data Sheet