SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 37578

TRANSELF NFJ 75W-80

Date of the previous version: 2016-11-23 **Revision Date:** 2016-12-27 **Version** 7.01

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

1.1. Product identifier

Product name **TRANSELF NFJ 75W-80**
Number NQ7
Substance/mixture 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

Emergency telephone: +44 1235 239670
France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59
In France - Poison centers:
ANGERS : 02 41 48 21 21
BORDEAUX : 05 56 96 40 80
LILLE : 08 00 59 59 59
LYON : 04 72 11 69 11
MARSEILLE : 04 91 75 25 25
NANCY : 03 83 22 50 50
PARIS : 01 40 05 48 48
STRASBOURG : 03 88 37 37 37
TOULOUSE : 05 61 77 74 47

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

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

Classification
The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008
Chronic aquatic toxicity - Category 3 - (H412)

2.2. Label elements

Labelled according to REGULATION (EC) No 1272/2008

Hazard Statements
H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

Supplemental Hazard Statements

EUH208 - Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ; C14-18 alpha-olefin epoxide, reaction products with boric acid ; Triphenyl phosphite May produce an allergic reaction

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Environmental properties Should not be released into the environment.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Chemical nature The product is made from refined mineral base oils and synthetic oils .

Hazardous ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Distillates (petroleum), hydrotreated heavy paraffinic	265-157-1	01-2119484627-25	64742-54-7	50-<60	Asp. Tox. 1 (H304)
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	-	01-2119486452-34	68037-01-4	5-<10	Asp. Tox. 1 (H304)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	276-737-9	01-2119474878-16	72623-86-0	3-<5	Asp. Tox. 1 (H304)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	224-235-5	01-2119493635-27	4259-15-8	1-<2.5	Aquatic Chronic 2 (H411) Eye Dam. 1 (H318)

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl	931-384-6	01-2119493620-38	^	1-<2.5	Acute Tox. 4 (H302) Aquatic Chronic 2 (H411) Eye Dam. 1 (H318) Skin Sens. 1 (H317)
C14-18 alpha-olefin epoxide, reaction products with boric acid	-	01-2119976364-28	^	0.1-<1	Skin Sens. 1 (H317)
Triphenyl phosphite	202-908-4	no data available	101-02-0	0.1-<1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Sens. 1 (H317) Acute M factor = 1

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 skin with soap and water. Wash contaminated clothing before reuse.
High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital.

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 symptoms 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. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

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

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

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

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

Notes to physician Treat symptomatically.

Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

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 arising from the substance or mixture

Special Hazard Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide, Sulfur oxides, Phosphorous oxides, Nitrogen oxides (NOx), Zinc oxides, Mercaptans, Hydrogen sulphide.

5.3. Advice for fire-fighters

Special protective equipment for fire-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 RELEASE 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 precautions

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 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 sections

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

Materials to Avoid Strong oxidizing agents.

7.3. Specific end uses

Specific use(s) No information available.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m^3, NIOSH (REL) TWA 5 mg/m^3, STEL 10 mg/m^3, ACGIH (TLV) TWA 5 mg/m^3 (highly refined)

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

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7				5.4 mg/m³/8h (aerosol - inhalation)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0				5.4 mg/m³/8h (aerosol - inhalation)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8			9.6 mg/kg bw/day Dermal 6.6 mg/m³ Inhalation	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-tert-alkyl ^			12.5 mg/kg/8h (dermal) 8.56 mg/m³/8h (inhalation) (ECHA CHEM)	
C14-18 alpha-olefin epoxide, reaction products with boric acid ^			5.88 mg/m³ Inhalation 16.7 mg/kg bw/day Dermal	
Triphenyl phosphite 101-02-0		0.0117 mg/cm2 Dermal	0.3 mg/kg bw/day Dermal 1.06 mg/m³ Inhalation	0.0117 mg/cm2 Dermal

DNEL Consumer

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7				1.2 mg/m³/24h (aerosol - inhalation)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0				1.2 mg/m³/24h (inhalation -aerosol)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8			4.8 mg/kg bw/day Dermal 1.67 mg/m³ Inhalation 0.19 mg/kg/bw/day Oral	
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14-			6.25 mg/kg/24h (dermal) 2.2 mg/m³/24h (inhalation) 0.25 mg/kg/24h (oral) (ECHA CHEM)	

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

tert-alkyl ^				
C14-18 alpha-olefin epoxide, reaction products with boric acid ^			1.45 mg/m³ Inhalation 8.3 mg/kg bw/day Dermal 0.83 mg/kg bw/day Oral	
Triphenyl phosphite 101-02-0		0.0117 mg/cm2 Dermal	0.15 mg/kg bw/day Dermal 0.53 mg/m³ Inhalation 0.075 mg/kg bw/day Oral	0.0117 mg/cm2 Dermal

Predicted No Effect Concentration (PNEC) Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	0.004 mg/l fw 0.0046 mg/l mw 0.044 mg/l ir	0.0701 mg/kg dw fw 0.00701 mg/kg dw mw	0.0548 mg/kg dw		3.8 mg/l	8.33 mg/kg food
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl ^	0.0012 mg/l fw 0.00012 mg/l mw 0.064 mg/ or	3.13 mg/kg fw 0.313 mg/kg mw	2.54 mg/kg soil dw		24.33 mg/l	10 mg/kg food
C14-18 alpha-olefin epoxide, reaction products with boric acid ^	0.2 mg/l fw 0.02 mg/l mw 1 mg/l or	8556 mg/kg dw fw 855.6 mg/kg dw mw	1706.3 mg/kg dw		100 mg/l	33.3 mg/kg food

8.2. Exposure controls

Occupational Exposure Controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. 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 Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.***

Respiratory protection None under normal use conditions. 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. 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. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.***

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		limpid To slightly cloudy	
Color		amber	
Physical State @20°C		liquid	
Odor		Characteristic	
Odor Threshold		No information available	
Property	**Values**	**Remarks**	**Method**
pH		Not applicable	
Melting point/range		Not applicable	
Boiling point/boiling range		No information available	
Flash point	**> 200 °C** > 392 °F		
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.874 - 0.884	@ 15 °C	ISO 12185

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Density	874 - 884 kg/m³	@ 15 °C	ISO 12185
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	43.0 - 49.0 mm2/s	@ 40 °C	ISO 3104
	8.60 - 9.0 mm2/s	@ 100 °C	ISO 3104
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	No information available		

9.2. Other information

Freezing Point No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information No information available.

10.2. Chemical stability

Stability Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous Reactions None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible materials

Materials to Avoid Strong oxidizing agents.

10.6. Hazardous Decomposition Products

Hazardous Decomposition Products None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity Local effects Product Information

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Skin contact . Not classified. May produce an allergic reaction. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

Eye contact . Not classified. The supplier of some components contained within this formulation has indicated that the classification as irritant is not required.

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

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

ATEmix (oral) 7,434.00 mg/kg
ATEmix (dermal) 6,994.00 mg/kg
ATEmix (inhalation-gas) > 5,000.00
ATEmix (inhalation-dust/mist) 7.20 mg/l
ATEmix (inhalation-vapor) 197.50 mg/l

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy 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)
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	LD50 > 5000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	LC50 (4h) > 5.2 mg/l (Rat)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	LD50 > 5000 mg/kg bw (Rat - OECD TG 401)	LD50 > 2000 mg/kg (Rabbit - OECD 402)	LD50 (4h) > 5.53 mg/l (Rat - OECD 403)
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	LD50 3100 mg/kg (Rat - OECD 401)	LD50 > 5000 mg/kg (Rabbit - OECD 402)	
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)		-
C14-18 alpha-olefin epoxide, reaction products with boric acid	LD50 > 16000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat - OECD 402)	
Triphenyl phosphite	LD50 1590 mg/kg (Rat - OECD 401)	> 2000 mg/kg (Rabbit) = 1180 mg/kg (Rat)	LC50 (1h) > 6.7 mg/l (Rat - aerosol - OECD 403)

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 This product is not classified carcinogenic.
Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity This product does not present any known or suspected reproductive hazards.

Repeated Dose Toxicity

Subchronic toxicity No information available.

Target Organ Effects (STOT)

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Other information

Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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), hydrotreated heavy paraffinic 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated 68037-01-4	EL50 (72h) > 1000 mg/l (Scenedesmus capricornutum - OECD 201)	EC50 (48h) 190 mg/l (Daphnia magna) LE50(48h) > 1000 mg/l (Daphnia magna)	LC50(96h) > 750 mg/l (Pimephales promelas) LL50(96h) > 1000 mg/l (Pimephales promelas)	
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0		EL50 (48h) > 10000 mg/l (OECD TG 202)	LL50 (96h) > 100 mg/l (OECD TG 203)	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	EC50 (72h) > 240 mg/L (Desmodesmus subspicatus)	EC50 (48h) > 1 - < 10 mg/L (Daphnia magna - OECD 202)	LC50 (96h) > 1 - 2 mg/L (Oncorhynchus mykiss - OECD 203)	
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)	
C14-18 alpha-olefin epoxide, reaction products with boric acid ^	EL50 (72h) > 100 mg/l (Pseudokirchnerella subcapitata - static - OECD 201)	EL50 (48h) >= 100 mg/l (Daphnia magna - static - OECD 202)	LL50 (96h) > 100 m/l (Oncorhynchus mykiss - semi static - OECD 203)	
Triphenyl phosphite 101-02-0		EC50(48h) 0.94 mg/l (Cladocère)		

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

Chronic aquatic toxicity - Product Information
No information available.

Chronic aquatic toxicity - Component Information
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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7		NOEL (21d) 10 mg/l (Daphnia magna - QSAR Petrotox)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated 68037-01-4	NOELR (72h) 1000 mg/l (Scenedesmus capricornutum - OECD 201)	NOELR (21d) 125 mg/l (Daphnia magna - OECD 211)		
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 72623-86-0		NOEL (21d) = 10 mg/l (OECD TG 202)	NOELR (14d) > 1000 mg/l (QSAR modelled data)	
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)

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 .

Chemical Name	log Pow
Distillates (petroleum), hydrotreated heavy paraffinic - 64742-54-7	-
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based - 72623-86-0	6.1
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) - 4259-15-8	3.59
Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl - ^	< 0.30 to >7.10 (OECD TG 117) (ECHA CHEM)
Triphenyl phosphite - 101-02-0	6.62

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.

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 INFORMATION

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

Section 15: REGULATORY INFORMATION

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

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

European Union

Further information

No information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

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 weight
fw = fresh water

SDS # : 37578

TRANSELF NFJ 75W-80

Revision Date: 2016-12-27 **Version** 7.01

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

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

Revision Date: 2016-12-27
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