

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**SDS #: 083213 TRANSMISSION AXLE 7 80W-90** 

Date of the previous version: 2016-10-10 Revision Date: 2016-12-29 Version 2.05

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

COMPANY/UNDERTAKING

## 1.1. Product identifier

Product name TRANSMISSION AXLE 7 80W-90

Number DEF 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**



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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**

Contains Amines, C12-14-tert-alkyl 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

**Hazardous ingredients** 

Chemical Name	EC-No	REACH registration	CAS-No	Weight %	Classification (Reg. 1272/2008)
		No			
Amines, C12-14-tert-alkyl	273-279-1	01-2119456798-18	68955-53-3	0.1-<0.25	STOT SE 3 (H335)
					Skin Corr. 1B (H314)
					Skin Sens. 1A (H317)
					Acute Tox. 4 (H302)
					Acute Tox. 3 (H311)
					Acute Tox. 2 (H330)
					Aquatic Acute 1 (H400)
					Aquatic Chronic 1 (H410)
					Acute M factor = 1
					Chronic M factor = 1
					Acute M factor = 1
					Chronic M factor = 1
(Z)-octadec-9-enylamine	204-015-5	no data available	112-90-3	0.1-<0.25	Acute Tox. 4 (H302)
` ,					Skin Corr. 1B (H314)
					Asp. Tox. 1 (H304)
					Eye Dam. 1 (H318)



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		Aquatic Acute 1 (H400)
		Aquatic Chronic 1 (H410)
		STOT SE 3 (H335)
		STOT RE 2 (H373)
		Acute M factor = 10
		Chronic M factor = 10

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 Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may

cause skin damage. Take victim immediately to hospital.

**Inhalation** remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not

breathing, give artificial respiration.

Ingestion Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

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

Eye contact Not classified.

**Skin contact** Not classified. May produce an allergic reaction.

**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.

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

Notes to physician Treat symptomatically.



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Section 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Carbon dioxide (CO<sub>2</sub>). 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 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

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. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Dam up. Keep in suitable, closed containers for disposal. Soak up with inert absorbent

material. 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).

6.4. Reference to other sections

Personal Protective Equipment See Section 8 for more detail.

Waste treatment See section 13.

Section 7: HANDLING AND STORAGE



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## 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. When using, do not eat, drink or smoke. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. Avoid prolonged and repeated contact with the skin, especially with used or waste product.

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

Strong oxidizing agents.

Technical measures/Storage conditions

Materials to Avoid

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. Keep in properly labeled containers.

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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/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH

(TLV) TWA 5 mg/m<sup>3</sup> (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
Amines, C12-14-tert-alkyl			12.5 mg/m³ Inhalation	12.1 mg/m³ Inhalation
68955-53-3				



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#### **DNEL Consumer**

Chemical Name	Short term, systemic	Short term, local effects	Long term, systemic	Long term, local effects
	effects		effects	
Amines, C12-14-tert-alkyl			2.5 mg/m3 Inhalation	1.2 mg/m3 Inhalation
68955-53-3			0.35 mg/kg bw/day Oral	

# Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Amines,	0.001 mg/L fw	2.14 mg/kg dw fw	0.428 mg/kg dw		0.635 mg/l	4.71 mg/kg
C12-14-tert-alkyl	0.0001 mg/l mw	0.214 mg/kg dw				
68955-53-3	0.004 mg/l or	mw				

### 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 Protective engineering solutions should be implemented and in use before personal

protective equipment is considered.

**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. Do not

wear rings, watches or anything similar which can retain the product and may give rise to skin conditions. Extended and repeated contacts with skin can cause skin ailments which

may be aggravated by minor injuries or contact with soiled clothing.

Hand Protection Hydrocarbon-proof gloves. Nitrile rubber, Fluorinated 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.

#### **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



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Information on basic physical and chemical properties

**Appearance** limpid brown Color Physical State @20°C liquid

Odor

Characteristic **Odor Threshold** 

No information available

**Property** <u>Values</u> Remarks Method

Not applicable pН Melting point/range Not applicable

No information available Boiling point/boiling range

ISO 2592 Flash point > 180 °C > 356 °F ISO 2592

**Evaporation rate** No information available

Flammability Limits in Air No information available

No information available upper Lower No information available **Vapor Pressure** No information available No information available Vapor density

@ 15 °C Relative density 0.895 Density 889 - 909 kg/m<sup>3</sup> @ 15 °C

Insoluble Water solubility

Solubility in other solvents Soluble in many common

organic solvents

No information available **Autoignition temperature** No information available **Decomposition temperature** No information available @ 100 °C

Viscosity, kinematic 14.4 - 15.2 mm2/s **Explosive properties** Not explosive **Oxidizing Properties** Not applicable

No information available Possibility of hazardous reactions

9.2. Other information

**Freezing Point** No information available

## Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

No information available. **General Information** 

10.2. Chemical stability

Stability Stable under recommended storage conditions.



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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.

Heat, flames and sparks. Take precautionary measures against static discharges. Strong

oxidizing agents.

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

**Skin contact** . Not classified. May produce an allergic reaction.

Eye contact . Not classified.

**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 (dermal) 73 413,00 mg/kg
ATEmix (inhalation-dust/mist) 175,40 mg/l
ATEmix (inhalation-vapor) 255,61 mg/l

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Amines, C12-14-tert-alkyl	LD50 612 mg/kg (Rat)	LD50 251 mg/kg (Rabbit)	LC50 (4h) 157 ppm (Rat - gas)
(Z)-octadec-9-enylamine	LD50 1689 mg/kg (Rat)	LD50 > 2000 mg/kg (Rat)	

#### Sensitization

Sensitization Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.

Specific effects

CarcinogenicityThis product is not classified carcinogenic.MutagenicityThis product is not classified as mutagenic.



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**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)** 

Target Organ Effects (STOT) None known.

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	Toxicity to fish	Toxicity to
		other aquatic invertebrates		microorganisms
Amines, C12-14-tert-alkyl	EC50 (72h) 0.44 mg/l	EC50 (48h) 2.5 mg/l	LC50 (96h) 1.3 mg/l (Fish)	
68955-53-3	(Algae)	(Daphnia magna)		
(Z)-octadec-9-enylamine	EC50 (96h) 0.03 mg/l	EC50 (48h) 0.011 mg/l	LC50 (96h) 0.11 mg/l (Fish)	-
112-90-3	(Algae)	(Daphnia magna)	, , , , , ,	

## Chronic aquatic toxicity - Product Information

No information available.

## Chronic aquatic toxicity - Component Information

No information available.

## Effects on terrestrial organisms

No information available.

## 12.2. Persistence and degradability

#### **General Information**

No information available.

# 12.3. Bioaccumulative potential



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**Product Information**No information available.

logPow No information available

Component Information

somponent information .				
Chemical Name	log Pow			
Amines, C12-14-tert-alkyl - 68955-53-3	2.9			

# 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

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. If recycling is not practicable, dispose of in compliance with local regulations. 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. EWC Waste Disposal No: 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. The following Waste

Codes are only suggestions:.

# Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated

IMDG/IMO Not regulated



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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** 

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

H311 - Toxic in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H330 - Fatal if inhaled

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very 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



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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 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:** 2016-12-29

**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**