# **SAFETY DATA SHEET**



# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Castrol Transmax Manual AT 75W-90

Product code 469700-DE41
SDS # 469700
Product type Liquid.

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

**Identified uses** 

General use of lubricants and greases in vehicles or machinery-Industrial General use of lubricants and greases in vehicles or machinery-Professional

Use of the substance/ Manual transmission fluid

mixture For specific application advice see appropriate Technical Data Sheet or consult our company

representative.

1.3 Details of the supplier of the safety data sheet

Supplier Lubricants UK Limited,

Chertsey Road, Sunbury On Thames,

Middlesex, TW16 7BP

+44 (0)345 600 8125 MSDSadvice@bp.com

1.4 Emergency telephone number

**EMERGENCY** Carechem: +44 (0) 1235 239 670 (24/7)

**TELEPHONE NUMBER** 

E-mail address

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Product definition** Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Aquatic Chronic 2, H411

See Section 16 for the full text of the H statements declared above.

See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

### 2.2 Label elements

**Hazard pictograms** 



Signal word No signal word.

Hazard statements H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

**General** P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

**Prevention** P273 - Avoid release to the environment.

Response P391 - Collect spillage.

Storage Not applicable.

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### **SECTION 2: Hazards identification**

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Hazardous ingredients Not applicable.

Supplemental label Contains Amines, C10-14-tert-alkyl and 1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-.

**elements** May produce an allergic reaction.

### EU Regulation (EC) No. 1907/2006 (REACH)

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

# **Special packaging requirements**

Containers to be fitted with child-resistant fastenings

Not applicable.

Tactile warning of danger Not applicable.

#### 2.3 Other hazards

Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006,

Annex XIII.

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII This mixture contains substances that are assessed to be a PBT or a vPvB, refer to Section 3.2.

Other hazards which do not result in classification

Defatting to the skin.

Experimental data on one or more of the components has been used to determine all or part of the hazard classification of this product.

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Product definition Mixture

Synthetic base stock. Proprietary performance additives.

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
S-(tricyclo(5.2.1.02,6)deca- 3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O- (isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	REACH #: 01-0000015167-71 CAS: 255881-94-8 Index: 015-146-00-0	≤1	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 10	[1] [2]
Amines, C10-14-tert-alkyl	REACH #: 01-2119456798-18 EC: 701-175-2 CAS: -	<1	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 300 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l M [Acute] = 1 M [Chronic] = 1	[1]
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	REACH #: 01-2119491299-23 EC: 270-128-1 CAS: 68411-46-1	≤1	Repr. 2, H361f	- ` '	[1]
1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	REACH #: 01-2120761104-64 EC: 813-543-0 CAS: 73984-93-7	<1	Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-	[1]
2,2'-(octadec-9-enylimino) bisethanol	REACH #: 01-2119510876-35 EC: 246-807-3 CAS: 25307-17-9	<0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg M [Acute] = 10 M [Chronic] = 1	[1]

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# **SECTION 3: Composition/information on ingredients**

See Section 16 for the full text of the H statements declared above.

**Type** 

[1] Substance classified with a health or environmental hazard

[2] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

### SECTION 4: First aid measures

### 4.1 Description of first aid measures

Eye contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids

should be held away from the eyeball to ensure thorough rinsing. Check for and remove any

contact lenses. Get medical attention.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove

contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before

reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. Never give anything by

mouth to an unconscious person. If unconscious, place in recovery position and get medical

attention immediately. Get medical attention if symptoms occur.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training. It may be

dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

See Section 11 for more detailed information on health effects and symptoms.

Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

pressure.

**Ingestion** No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation. Product not classified for

sensitisation. Based on data available for this or related materials.

Eye contact No known significant effects or critical hazards.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Inhalation** Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the

respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

Skin contact Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs.

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

Notes to physician Treatment should in general be symptomatic and directed to relieving any effects.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing

Use foam or all-purpose dry chemical to extinguish.

media

Unsuitable extinguishing

media

products

Do not use water jet.

### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous combustion** 

combustion products may include the following:

carbon oxides (CO, CO<sub>2</sub>) (carbon monoxide, carbon dioxide)

5.3 Advice for firefighters

Special precautions for

fire-fighters

No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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# **SECTION 5: Firefighting measures**

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

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

For non-emergency personnel

Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to avoid falling. Avoid breathing vapour or mist. Provide adequate ventilation. Put on appropriate personal protective equipment.

For emergency responders

Entry into a confined space or poorly ventilated area contaminated with vapour, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** 

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 6.3 Methods and material for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See Section 1 for emergency contact information.

See Section 5 for firefighting measures.

See Section 8 for information on appropriate personal protective equipment.

See Section 12 for environmental precautions.

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

# 7.1 Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid contact of spilt material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Empty containers retain product residue and can be hazardous.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store and use only in equipment/ containers designed for use with this product. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Not suitable Prolonged exposure to elevated temperature.

7.3 Specific end use(s)

**Recommendations** See section 1.2 and Exposure scenarios in annex, if applicable.

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# SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapour or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

**Recommended monitoring** procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived No Effect Level**

Product/ingredient name	Type	Ex	posure	Value	Population	Effects
Amines, C12-14-tert-alkyl	DNEL	Long term Inhalation	-	12.5 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	-	12.1 mg/m³	Workers	Local
	DNEL	Long term Inhalation	-	- J	General population	Systemic
	DNEL	Long term Inhalation	-	1.2 mg/m³	General population	Local
	DNEL	Long term Oral	-	0.35 mg/kg bw/ day	General population	Systemic

### **Predicted No Effect Concentration**

Product/ingredient name	Compartment Detail	Value	Method Detail
Amines, C12-14-tert-alkyl	Fresh water	0.001 mg/l	-
-	Sewage Treatment Plant	0.635 mg/l	-
	Fresh water sediment	2.14 mg/kg	-
	Marine water sediment	0.214 mg/kg	-
	Soil	0.428 mg/kg	-
	Secondary Poisoning	4.71 mg/kg	-

### 8.2 Exposure controls

**Appropriate engineering** controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained.

Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organisation for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

#### **Individual protection measures**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection** 

In case of insufficient ventilation, wear suitable respiratory equipment.

The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

**Eye/face protection Skin protection** 

Safety glasses with side shields.

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## SECTION 8: Exposure controls/personal protection

#### **Hand protection**

#### **General Information:**

Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures).

Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.

Recommended: Nitrile gloves.

#### Breakthrough time:

Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows:

#### Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained.

If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes are determined and adhered to.

Short-term / splash protection:

Recommended breakthrough times as above.

It is recognised that for short-term, transient exposures, gloves with shorter breakthrough times may commonly be used. Therefore, appropriate maintenance and replacement regimes must be determined and rigorously followed.

#### **Glove Thickness:**

For general applications, we recommend gloves with a thickness typically greater than 0.35 mm.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

### Skin and body

Use of protective clothing is good industrial practice.

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

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# **SECTION 8: Exposure controls/personal protection**

Respiratory protection: EN 529 Refer to standards:

Gloves: EN 420, EN 374 Eye protection: EN 166 Filtering half-mask: EN 149

Filtering half-mask with valve: EN 405 Half-mask: EN 140 plus filter Full-face mask: EN 136 plus filter Particulate filters: EN 143 Gas/combined filters: EN 14387

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

**Physical state** Liquid.

Colour Yellow. [Light] Odour Not available. Not available. **Odour threshold** Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

**Flammability** Not available. Lower and upper explosion Not available.

limit

Flash point Open cup: 223°C (433.4°F) [Cleveland]

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not applicable.

Kinematic viscosity

**Solubility** 

Kinematic: 96.5 mm<sup>2</sup>/s (96.5 cSt) at 40°C

Media Result Not soluble water

Partition coefficient n-octanol/

water (log value)

Vapour pressure

Not applicable.

	Vapou	r Pressu	re at 20°C	Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
instillates (petroleum), hydrotreated heavy paraffinic	<0.07501	<0.01	ASTM D 5191			

**Density and/or Relative density** 

<1000 kg/m3 (<1 g/cm3) at 15°C

Relative vapour density

**Particle characteristics** 

Not available.

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Median particle size Not applicable.

9.2 Other information

**Evaporation rate** Not available. Not available. **Explosive properties** Not available. **Oxidising properties** 

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# **SECTION 10: Stability and reactivity**

10.1 Reactivity No specific test data available for this product. Refer to Conditions to avoid and Incompatible

materials for additional information.

10.2 Chemical stability The product is stable.

10.3 Possibility of Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

Under normal conditions of storage and use, hazardous polymerisation will not occur.

10.4 Conditions to avoid Avoid all possible sources of ignition (spark or flame).

10.5 Incompatible materials Reactive or incompatible with the following materials: oxidising materials.

10.6 Hazardous Under normal conditions of storage and use, hazardous decomposition products should not be

decomposition products produced.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

# **Acute toxicity**

Product/ingredient name	Result / Route	Test au Nun	thority / nber	Species	Dose	Exposure	Remarks
mines, C12-14-tert-alkyl	LC50 Inhalation Vapour	OECD	403	Rat	1.19 mg/l	4 hours	-
	LD50 Dermal	OECD	402	Rat	251 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	612 mg/kg	-	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	LC50 Dermal	OECD	402	Rat	>2000 mg/kg	-	-
	LC50 Oral	OECD	401	Rat	>5000 mg/kg	-	-
1,3,4-thiadiazole-2(3H)- thione, 5-(tert- dodecyldithio)-	LD50 Dermal	OECD	402	Rabbit	>2000 mg/kg	-	-
	LD50 Oral	OECD	401	Rat	6176 mg/kg	-	-

# **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Zastrol Transmax Manual AT 75W-90 Amines, C12-14-tert-alkyl 2,2'-(octadec-9-enylimino)bisethanol	N/A	31533.0	N/A	52.6	N/A
	500	300	N/A	0.5	N/A
	500	N/A	N/A	N/A	N/A

# **Irritation/Corrosion**

Product/ingredient name	Test authority number	•	Species	Route / Result	Test concentration	Remarks
mines, C12-14-tert-alkyl	-	-	Rabbit	Eyes - Visible necrosis	-	-
	-	-	Rabbit	Skin - Visible necrosis	-	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	OECD	405	Rabbit	Eyes - Not irritant	-	-
	OECD	404	Rabbit	Skin - Slightly irritating to the skin.	-	-

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# **SECTION 11: Toxicological information**

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1,3,4-thiadiazole-2(3H)- thione, 5-(tert- dodecyldithio)-	OECD	405	Rabbit	Eyes - Not irritant	-	-
	OECD	402	Rabbit	Skin - Not irritant	-	-

### **Sensitiser**

Product/ingredient name	Route		ority / Test mber	Species	Result	Remarks
mines, C12-14-tert-alkyl	skin	OECD	406	Guinea pig	Sensitising	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	skin	OECD	406	Guinea pig	Not sensitising	-
1,3,4-thiadiazole-2(3H)- thione, 5-(tert- dodecyldithio)-	skin	OECD	406	Guinea pig	Sensitising	-

### **GERM CELL MUTAGENICITY**

Product/ingredient name	Test authority / Test number	Cell		Туре	Result	Remarks
mines, C12-14-tert- alkyl	471 Bacterial - Reverse Mutation Test		Experiment: In vitro	Subject: Bacteria	Negative	-
	476 In vitro - Mammalian Cell Gene Mutation Test		Experiment: In vitro	Subject: Mammal - species unspecified	Negative	-
	474 Mammalian - Erythrocyte Micronucleus Test		Experiment: In vivo	Subject: Mammal - species unspecified	Negative	-
Benzenamine, N- phenyl-, reaction products with 2,4,4-trimethylpentene	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 487 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	-
1,3,4-thiadiazole-2 (3H)-thione, 5-(tert- dodecyldithio)-	OECD 471 -		Experiment: In vitro	Subject: Bacteria	Negative	-
	OECD 473 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.
	OECD 476 -		Experiment: In vitro	Subject: Mammalian- Animal	Negative	Based on studies with similar substances.

# Carcinogenicity

Not available.

**Reproductive toxicity** 

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# **SECTION 11: Toxicological information**

Product/ ingredient name	Test au	•	Species	Route	Exposure	Developmental	Maternal toxicity	Fertility	Remarks
mines, C12-14-tert-alkyl	OECD	415	Rat	Oral	-	Negative	Negative	Negative	-
Benzenamine, N- phenyl-, reaction products with 2,4,4-trimethylpentene	OECD	443	Rat	Oral	-	Negative	Negative	Positive	-
1,3,4-thiadiazole-2 (3H)-thione, 5-(tert- dodecyldithio)-	OECD	421	Rat	Oral	-	Negative	Positive	Negative	Based on studies with similar substances.

#### **Aspiration hazard**

Product/ingredient name	Result
Not available.	

Conclusion/Summary

Not classified. Based on available data, the classification criteria are not met.

Conclusion/Summary Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Inhalation Vapour inhalation under ambient conditions is not normally a problem due to low vapour

pressure.

**Ingestion** No known significant effects or critical hazards.

Not available.

Skin contact Defatting to the skin. May cause skin dryness and irritation. Product not classified for

sensitisation. Based on data available for this or related materials.

**Eye contact** No known significant effects or critical hazards. **Symptoms related to the physical, chemical and toxicological characteristics** 

Inhalation May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal

decomposition products occurs.

Ingestion No specific data.

**Skin contact** Adverse symptoms may include the following:

irritation dryness cracking

Eye contact No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the

respiratory tract.

**Ingestion** Ingestion of large quantities may cause nausea and diarrhoea.

**Skin contact** Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.

**Eye contact** Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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# **SECTION 12: Ecological information**

# **12.1 Toxicity**

Product/ingredient name	Test aut	•	Species	Type / Result	Exposure	Effects	Remarks
mines, C12-14-tert-alkyl	OECD	202	Daphnia	Acute EC50 2.5 mg/l	48 hours	-	-
	OECD	209	Micro- organism	Acute EC50 63.5 mg/l	3 hours	-	-
	OECD	201	Algae	Acute ErC50 0.44 mg/l	72 hours	-	-
	OECD	203	Fish	Acute LC50 1.3 mg/l	96 hours	-	-
	OECD	201	Algae	Chronic NOEC 0.05 mg/l	72 hours	-	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	OECD	202	Daphnia	Acute EC50 51 mg/l	48 hours	-	-
	OECD	201	Algae	Acute ErC50 >100 mg/l	72 hours	-	-
	OECD	203	Fish	Acute LC50 >100 mg/l	96 hours	-	-
	OECD	211	Daphnia	Chronic EC10 1.69 mg/l	21 days	-	-
	OECD	201	Algae	Chronic NOEC ≥10 mg/l	72 hours	-	-
1,3,4-thiadiazole-2(3H)- thione, 5-(tert- dodecyldithio)-	OECD	201	Algae	Acute EL50 >100 mg/l	72 hours	-	Based on studies with similar substances.
	OECD	202	Daphnia	Acute EL50 41 mg/l	48 hours	-	Based on studies with similar substances.
	OECD	203	Fish	Acute LL50 >1000 mg/l	96 hours	-	Based on studies with similar substances.
	OECD	201	Algae	Chronic EL10 >100 mg/l	72 hours	-	Based on studies with similar substances.
2,2'-(octadec-9-enylimino) bisethanol	-	-	Algae	Acute EC50 0.01 to 0.1 mg/l	72 hours	-	-

**Environmental hazards** 

Toxic to aquatic life with long lasting effects.

# 12.2 Persistence and degradability

Not expected to be rapidly degradable.

Product/ingredient name	Test authority / Test number	Result - Exposure	Remarks
mines, C12-14-tert-alkyl	OECD 301D	21.8 % - Not readily - 28 days	-
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	OECD 301B	1 % - 28 days	-
1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	OECD 301C	0 % - Not readily - 28 days	-

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# **SECTION 12: Ecological information**

### 12.3 Bioaccumulative potential

This product is not expected to bioaccumulate through food chains in the environment.

Product/ingredient name	LogPow	BCF	Potential
S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate		-	High
Amines, C10-14-tert-alkyl	2.9	-	Low
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5.1	-	High
1,3,4-thiadiazole-2(3H)-thione, 5-(tert-dodecyldithio)-	6.67	-	High
2,2'-(octadec-9-enylimino) bisethanol	3.4	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

Not available.

Mobility

Spillages may penetrate the soil causing ground water contamination.

#### 12.5 Results of PBT and vPvB assessment

Product does not meet the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII.

PBT	Р	В	Т	vPvB	vP	vB
SVHC (Candidate)	Specified	Specified	Specified	N/A	N/A	N/A
No	N/A	N/A	No	N/A	N/A	N/A
No	N/A	N/A	No	N/A	N/A	N/A
No	N/A	N/A	No	N/A	N/A	N/A
	SVHC (Candidate) No No	SVHC (Candidate)  No N/A No N/A	SVHC (Candidate)  Specified Specified  No N/A N/A N/A  No N/A N/A	SVHC (Candidate)  Specified Specified Specified  No N/A N/A NO NO N/A N/A No	SVHC (Candidate)  Specified Specified Specified N/A  No N/A N/A No N/A  No N/A N/A No N/A	SVHC (Candidate)  Specified Specified N/A  N/A  N/A  N/A  N/A  N/A  N/A  N/A

12.6 Endocrine disrupting

properties

Not available.

Other ecological information

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen

transfer could also be impaired.

12.7 Other adverse effects

No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

**Product** 

**Methods of disposal** 

Where possible, arrange for product to be recycled. Dispose of via an authorised person/

licensed waste disposal contractor in accordance with local regulations.

Hazardous waste Yes.

European waste catalogue (EWC)

Waste code	Waste designation
13 02 06*	synthetic engine, gear and lubricating oils

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

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# **SECTION 13: Disposal considerations**

**Packaging** 

Methods of disposal Where possible, arrange for product to be recycled. Dispose of via an authorised person/

licensed waste disposal contractor in accordance with local regulations.

**Special precautions** This material and its container must be disposed of in a safe way. Care should be taken when

> handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never weld, solder or braze empty containers. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Commission 2014/955/EU References Directive 2008/98/EC

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (2,2'-(octadec-9-enylimino) bisethanol)	Environmentally hazardous substance, liquid, n.o.s. (2,2'- (octadec-9-enylimino) bisethanol)	Environmentally hazardous substance, liquid, n.o.s Marine pollutant (2,2'-(octadec- 9-enylimino)bisethanol)	Environmentally hazardous substance, liquid, n.o.s. (2,2'- (octadec-9-enylimino) bisethanol)
14.3 Transport hazard class(es)	9	9	9	9
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes.
Additional information	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  Hazard identification number 90  Tunnel code -	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.  Emergency schedules F-A, S-F	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

14.6 Special precautions for

Not available.

**UK Emergency Action Code:** •3Z **ADR/RID Classification** M6

code:

**ADN Classification code:** M6

14.7 Maritime transport in

Not available.

bulk according to IMO instruments

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

**Annex XIV** 

None of the components are listed.

Substances of very high concern

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# **SECTION 15: Regulatory information**

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Phosphorodithioic acid, mixed O,O-di (2-ethylhexyl, isobutyl, isopropyl)-5-(3a, 4,5,6,7,7a-hexahydro-4,7-methano-1H-inden-5-yl) and -6-yl) esters	PBT	Candidate	D(2021) 10043-DC	-

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Castrol Transmax Manual AT 75W-90	95-100	3

Labelling

Not applicable.

**Other regulations** 

REACH Status The company, as identified in Section 1, sells this product in the EU in compliance with the

current requirements of REACH.

**United States inventory** 

(TSCA 8b)

MI components are active or exempted.

Australia inventory (AIIC)

Canada inventory

China inventory (IECSC)

Japan inventory (CSCL)

Korea inventory (KECI)

Philippines inventory

All components are listed or exempted.

All components are listed or exempted.

At least one component is not listed.

All components are listed or exempted.

All components are listed or exempted.

(PICCS)

Taiwan Chemical Substances Inventory

(TCSI)

All components are listed or exempted.

Explosive precursors Mot applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

### EU - Water framework directive - Priority substances

None of the components are listed.

# **Seveso Directive**

This product is controlled under the Seveso Directive.

### **Danger criteria**

Category	
E2	_

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for one or more of the substances within this mixture. A Chemical Safety Assessment has not been carried out for the mixture itself.

### **SECTION 16: Other information**

**Abbreviations and acronyms** 

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

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### **SECTION 16: Other information**

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as

modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

[Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SADT = Self-Accelerating Decomposition Temperature

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVCB = Complex hydrocarbon substance

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Varies = may contain one or more of the following 64741-88-4 / RRN 01-2119488706-23,

64741-89-5 / RRN 01-2119487067-30, 64741-95-3 / RRN 01-2119487081-40, 64741-96-4/ RRN

01-2119483621-38, 64742-01-4 / RRN 01-2119488707-21, 64742-44-5 / RRN

01-2119985177-24, 64742-45-6, 64742-52-5 / RRN 01-2119467170-45, 64742-53-6 / RRN

01-2119480375-34, 64742-54-7 / RRN 01-2119484627-25, 64742-55-8 / RRN

01-2119487077-29, 64742-56-9 / RRN 01-2119480132-48, 64742-57-0 / RRN

01-2119489287-22, 64742-58-1, 64742-62-7 / RRN 01-2119480472-38, 64742-63-8,

64742-65-0 / RRN 01-2119471299-27, 64742-70-7 / RRN 01-2119487080-42, 72623-85-9 /

RRN 01-2119555262-43, 72623-86-0 / RRN 01-2119474878-16, 72623-87-1 / RRN

01-2119474889-13

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	cation	Justification
Aquatic Chronic 2, H411		Calculation method
Full text of abbreviated H statements	H302 H311 H314 H317 H318 H330 H361 H361f H400 H410	Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Fatal if inhaled. Suspected of damaging fertility or the unborn child. Suspected of damaging fertility. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Acute Tox. 2 Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Eye Dam. 1 Repr. 2 Skin Corr. 1B Skin Sens. 1A Skin Sens. 1B	ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITISATION - Category 1B

# Product name Castrol Transmax Manual AT 75W-90

**History** 

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(UK) (United Kingdom)

### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

### **SECTION 16: Other information**

Date of issue/ Date of

05/11/2024.

revision

Date of previous issue 29/02/2024.

Prepared by Product Stewardship

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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# Annex to the extended Safety Data Sheet (eSDS)

Industrial

### Identification of the substance or mixture

**Product definition** Mixture Code 469700-DE41

**Product name** Castrol Transmax Manual AT 75W-90

Section 1: Title

Short title of the exposure

scenario List of use descriptors General use of lubricants and greases in vehicles or machinery - Industrial

Identified use name: General use of lubricants and greases in vehicles or

machinery-Industrial

Process Category: PROC01, PROC08b, PROC09, PROC02

Sector of end use: SU03

Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07

Specific Environmental Release Category: ATIEL-ATC SPERC 4.Biv1

**Processes and activities** covered by the exposure

scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

# Section 2 Operational conditions and risk management measures

### Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

Contributing scenarios: Operational conditions and risk management measures

### Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance 2.63E+3 Tonnes/year

per year:

Frequency and duration of use:

**Emission days** 300

Environment factors not influenced by risk

management:

10 Local freshwater dilution factor Local marine water dilution factor 100

Other conditions affecting environmental exposure:

Negligible wastewater emissions as process operates without water

contact.

Release fraction to air (after typical onsite

RMMs)

5.00E-05

Release fraction to soil from process (after

typical onsite RMMs)

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process process level (source) to prevent release: release estimates used.

Castrol Transmax Manual AT 75W-90

General use of lubricants and greases in vehicles or machinery - Industrial

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Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Organisational measures to prevent/limit release from site:

Conditions and measures related to sewage treatment plant:

Estimated substance removal from

wastewater via on-site sewage treatment
Assumed domestic sewage treatment plant

flow rate (m3/d)
Maximum allowable site tonnage (M<sub>Safe</sub>)
based on release following total wastewater

Conditions and measures related to external treatment of waste for disposal:

treatment removal as product:

Conditions and measures related to external recovery of waste:

Prevent discharge of undissolved substance to or recover from onsite wastewater.

User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

Not available.

2.00E+3

Not available.

External treatment and disposal of waste should comply with applicable local and/or national regulations.

External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): Used ECETOC TRA model (May 2010 release).

**Exposure estimation and reference to its source - Workers** 

**Exposure assessment (human):** No exposure scenario is presented because the product is not

classified for Human Health

# Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	No exposure scenario is presented because the product is not classified for Human Health



# Annex to the extended Safety Data Sheet (eSDS)

**Professional** 

### Identification of the substance or mixture

Product definition Mixture

Code 469700-DE41

Product name Castrol Transmax Manual AT 75W-90

Section 1: Title

Short title of the exposure

List of use descriptors

scenario

General use of lubricants and greases in vehicles or machinery - Professional

Identified use name: General use of lubricants and greases in vehicles or

machinery-Professional

Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20

Sector of end use: SU22

Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b

Specific Environmental Release Category: ATIEL-ATC SPERC 9.Bp.v1

Processes and activities covered by the exposure

scenario

Covers general use of lubricants and greases in vehicles or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

# Section 2 Operational conditions and risk management measures

### Section 2.1 Control of worker exposure

No exposure scenario is presented because the product is not classified for Human Health

Contributing scenarios: Operational conditions and risk management measures

### Section 2.2: Control of environmental exposure

Amounts used:

EU tonnage of risk determining substance 5.39 Tonnes/year

per year:

Frequency and duration of use:

Emission days 365

**Environment factors not influenced by risk** 

management:

Local freshwater dilution factor 10
Local marine water dilution factor 100

Other conditions affecting environmental

exposure:

Negligible wastewater emissions as process operates without water

contact.

Release fraction to air (after typical onsite

RMMs)

1.00E-04

Release fraction to soil from process (after

typical onsite RMMs)

1E-03

Release fraction to wastewater from process Not available.

(after typical onsite RMMs and before

sewage treatment plan)

Technical conditions and measures at Common practices vary across sites thus conservative process

process level (source) to prevent release: release estimates used.

Castrol Transmax Manual AT 75W-90

General use of lubricants and greases in vehicles or machinery - Professional

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Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil:

Organisational measures to prevent/limit release from site:

Conditions and measures related to sewage treatment plant:

treatment plant:

Estimated substance removal f

Estimated substance removal from wastewater via on-site sewage treatment

Assumed domestic sewage treatment plant flow rate (m3/d)

Maximum allowable site tonnage (Msafe) based on release following total wastewater treatment removal as product:

Conditions and measures related to external treatment of waste for disposal:

Conditions and measures related to external recovery of waste:

Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and waste water to be discharged via a sewage treatment plant.

Do not apply industrial sludge to natural soils.

Sewage sludge should be incinerated, contained or reclaimed.

No data available yet

2.00E+3

No data available yet

External treatment and disposal of waste should comply with applicable local and/or national regulations.

External recovery and recycling of waste should comply with applicable local and/or national regulations.

### Section 3: Exposure estimation and reference to its source

Exposure estimation and reference to its source - Environment

Exposure assessment (environment): Used ECETOC TRA model (May 2010 release).

Exposure estimation and reference to its source - Workers

**Exposure assessment (human):** No exposure scenario is presented because the product is not

classified for Human Health

### Section 4: Guidance to check compliance with the exposure scenario

Environment	Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.ATIEL.org/REACH_GES
Health	No exposure scenario is presented because the product is not classified for Human Health