

Date of issue : 2012-08-22.

Version : 2

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****Product name** : SYNTHETIC TRANSMISSION OIL
75W90**Product no.** : 3809442**1.2 Relevant identified uses of the substance or mixture and uses advised against****Product use** : Lubricants - Base Oils**1.3 Details of the supplier of the safety data sheet****Supplier** : AB Volvo Penta
SE 405 08 Gothenburg
Sweden**Telephone no.:** : +46-31-66 67 50**E-mail address** : sds@volvo.com**1.4 Emergency telephone number****Emergency phone** : +46-31-66 67 50 (during office
hours)**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Product definition** : Mixture**Classification according to Directive 1999/45/EC [DPD]**

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Not classified.**See section 11 for toxicological information and section 12 for ecotoxicological information.**

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

2.2 Label elements**Hazard symbol or symbols** :**Indication of danger** :**Risk phrases** : This product is not classified according to EU legislation.**Safety phrases** : Not applicable.**Supplemental label elements** : Contains Phosphoric acid ester, amine salt and olefin sulphide. May produce an allergic reaction.
Safety data sheet available for professional user on request.
Keep out of the reach of children. If ingested, do not induce vomiting. Seek medical advice immediately. Minimise skin contact. Protect the environment. Dispose of used oil at designated sites. Do not mix used oil with solvents, brake fluids or coolants.**2.3 Other hazards****Other hazards which do not result in classification** : Not available.**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance/mixture** : Mixture

Ingredient name	Identifiers	%	<u>Classification</u>		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Synthetic Base Oil	-	30 - 60	Not classified.	Not classified.	
Olefin sulfide	CAS: 68937-96-2	1 - 5	R43	Skin Sens. 1, H317	[1]
Phosphoric acid ester, amine salt	CAS: 91745-46-9	1 - 5	R53	Aquatic Chronic 4, H413	
			Xn; R22	Acute Tox. 4, H302	[1]
			Xi; R41	Eye Dam. 1, H318	
			R43	Skin Sens. 1, H317	
			N; R51/53	Aquatic Chronic 2, H411	
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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

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

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Inhalation** : If inhaled, remove to fresh air. Get medical attention if symptoms appear.
- Skin contact** : Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if irritation develops.
- Eye contact** : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
- Ingestion** : If swallowed, do not induce vomiting. Get medical attention.
- Protection of first-aiders** : Not applicable

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Inhalation** : Slightly irritating to the respiratory system.
- Skin contact** : Slightly irritating to the skin. Defatting to the skin.
- Eye contact** : Slightly irritating to the eyes.
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhoea.

Over-exposure signs/symptoms

- Inhalation** : No specific data.
- Skin contact** : May cause skin irritation.
- Eye contact** : May cause eye irritation.
- Ingestion** : No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

- Specific treatments** : No specific treatment.

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

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

- Suitable** : Recommended; alcohol-resistant foam, CO₂, powders
- Not suitable** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products** : Decomposition products may include the following materials:
carbon oxides (CO, CO₂)
smoke
fumes and Aldehyde.

5.3 Advice for firefighters

- Special precautions 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.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Refer to protective measures listed in sections 7 and 8.

For emergency responders : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. 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).

6.3 Methods and materials for containment and cleaning up

Spill : 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 (see Section 13). Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures : Avoid prolonged contact with eyes, skin and clothing. Do not ingest. Use only with adequate ventilation. Wash thoroughly after handling.

Advice on general occupational hygiene : 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. Wash contaminated clothing before reusing.

7.2 Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limits

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
No exposure limit value known.	

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

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. Wash contaminated clothing before reusing.

Personal protective equipment

Respiratory protection : Provide adequate ventilation.

Hand protection : For prolonged or repeated handling, use gloves : nitrile rubber

Eye protection : safety glasses with side-shields

Environmental exposure controls : Do not allow to enter drains or watercourses.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Colour	: Amber.
Odour	: Hydrocarbon.
Odour threshold	: Not available.
pH	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: >316°C (>600,8°F)
Flash point	: Open cup: >180°C (>356°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Slightly flammable in the presence of the following materials or conditions: heat.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Upper/lower flammability or explosive limits	: Lower: 0,9% Upper: 7%
Vapour pressure	: <0,013 kPa (<0,1 mm Hg)
Vapour density	: Not available.
Relative density	: Not available.
Density	: 0,868 g/cm ³ [15°C (59°F)]
Solubility	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 1,02 cm ² /s (102 cSt)
Explosive properties	: Not available.
Oxidising properties	: Not available.

9.2 Other information

No additional information.

10. STABILITY AND REACTIVITY

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Keep away from sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Decomposition products may include the following materials: carbon oxides (CO, CO ₂) smoke fumes and Aldehyde.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Potential acute health effects

Inhalation	: Slightly irritating to the respiratory system.
Skin contact	: Slightly irritating to the skin. Defatting to the skin.
Eye contact	: Slightly irritating to the eyes.
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhoea.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Skin contact	: May cause skin irritation.
Eye contact	: May cause eye irritation.
Ingestion	: No specific data.

Relevant information for the mixture and/or the ingredients is presented below.

Acute toxicity

11. TOXICOLOGICAL INFORMATION

Product/ingredient name	Result	Species	Dose	Exposure
Phosphoric acid ester, amine salt	LD50 Oral	ATE value	500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phosphoric acid ester, amine salt	Eyes - Severe irritant	-	-	-	-

Sensitiser

Product/ingredient name	Route of exposure	Species	Result
Olefin sulfide	skin	-	Sensitising
Phosphoric acid ester, amine salt	skin	-	Sensitising
SYNTHETIC TRANSMISSION OIL 75W90	skin	-	Not sensitizing

Potential chronic health effects

General : Experimental data has shown that this product does not induce sensitization. Repeated exposure may cause skin dryness or cracking. skin lesion/eczema

Other information : Not available.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Environmental effects : Ecotoxicological data on the substances included in this product show that the product is not classified as harmful to the environment.

Product/ingredient name	Species	Exposure	Result
Phosphoric acid ester, amine salt	Fish	96 hours	Acute LC50 1 to 10 mg/L

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Synthetic Base Oil	-	-	Not readily
Olefin sulfide	-	-	Not readily
Phosphoric acid ester, amine salt	-	-	Not readily

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Methods of disposal : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Hazardous waste : This product is listed as Hazardous by the EU Directive on hazardous waste. Dispose of according to all national and local applicable regulations.

European waste catalogue (EWC)

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

Packaging

Methods of disposal : Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

13. DISPOSAL CONSIDERATIONS

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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.
14.6 Special precautions for user	Not available.	Not available.	Not available.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

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

Substances of very high concern

None of the components are listed.

Other EU regulations

Product use : Consumer applications, Industrial applications.

16. OTHER INFORMATION

Full text of abbreviated R phrases : R22- Harmful if swallowed.
R41- Risk of serious damage to eyes.
R43- May cause sensitisation by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R53- May cause long-term adverse effects in the aquatic environment.

Full text of classifications [DSD/DPD] : Xn - Harmful
Xi - Irritant
N - Dangerous for the environment

Full text of abbreviated H statements : H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Full text of classifications [CLP/GHS]	: Acute Tox. 4, H302 Aquatic Chronic 2, H411 Aquatic Chronic 4, H413 Eye Dam. 1, H318 Eye Irrit. 2, H319 Skin Sens. 1, H317	ACUTE TOXICITY: ORAL - Category 4 AQUATIC TOXICITY (CHRONIC) - Category 2 AQUATIC TOXICITY (CHRONIC) - Category 4 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1
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History

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Conforms to 1907/2006/EC, Article 31 - United Kingdom (UK)

16. OTHER INFORMATION

 Indicates information that has changed from previously issued version.