

Section 1. Chemical product and company identification

Trade name : SYNTHETIC TRANSMISSION OIL 75W90 **In case of emergency**
 Code : 1141679 **1-800-535-5053**
 Material uses : Lubricants - Base Oils
 Supplier : Volvo Penta of the Americas, Inc.
 1300 Volvo Penta Drive
 Chesapeake, VA 23320
 Telephone no. : (757) 436-2800

Section 2. Composition, information on ingredients

Name	CAS #	% by weight
1) Synthetic Base Oil		30 - 60
2) Olefin sulfide	68937-96-2	1 - 5
3) Phosphoric acid ester, amine salt		< 2.5

Section 3. Hazards identification

Physical state and Appearance : Liquid.

Emergency overview : WARNING!
 MAY CAUSE ALLERGIC SKIN REACTION.
 Repeated or prolonged contact with irritants may cause dermatitis. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep out of the reach of children.

Routes of entry : Eyes, Skin, Inhalation and Ingestion.

Potential acute health effects

Eyes : Irritating to eyes. Inflammation of the eye is characterized by redness, watering and itching. Get medical attention if irritation develops.

Skin : Irritating to skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. Defatting to the skin. May produce an allergic reaction.

Inhalation : Moderately irritating to the respiratory system.

Ingestion : Aspiration hazard if swallowed. Can enter lungs and cause damage.

Potential chronic health effects : Not applicable.

Medical conditions aggravated by over-exposure : Causes dermatitis.

Over-exposure signs/symptoms : Not available.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Skin contact : Wash with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

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. Get medical attention if symptoms occur.

Continued on next page

Notes to physician : Not available.

Section 5. Fire-fighting measures

- Flammability of the product** : May be combustible at high temperature.
- Flash points** : Open cup: >180°C (>356°F)
- Flammable limits** : Lower: 0,9%
Upper: 7%
- Products of combustion** : Decomposition products may include the following materials: carbon oxides (CO, CO₂), smoke, fumes, Aldehyde.
- Fire hazards in the presence of various substances** : Slightly flammable in the presence of the following materials or conditions: heat.
- Explosion hazards in the presence of various substances** : Not available.
- Fire-fighting media and instructions** : Recommended use: alcohol-resistant foam, CO₂, powders.
Do not use water jet.
- Protective clothing (fire)** : Be sure to use an approved/certified respirator or equivalent.
- Special remarks on fire hazards** : Not available.
- Special remarks on explosion hazards** : Not available.

Section 6. Accidental release measures

- Small spill and leak** : Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Refer to protective measures listed in sections 7 and 8.
- Large spill and leak** : Absorb with an inert material and place in an appropriate waste disposal container. Refer to protective measures listed in sections 7 and 8.

Section 7. Handling and storage

- Handling** : Avoid prolonged contact with eyes, skin and clothing. Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure controls/personal protection

- Engineering controls** : Use only with adequate ventilation.

Personal protection

Eyes : Safety glasses.

Body : Protective clothing

Respiratory : Not applicable.

Hands : Chemical-resistant gloves.

- Personal protection in case of a large spill** : Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be adequate. Consult a specialist before handling this product.

Product name
Synthetic Base Oil

Exposure limits
ACGIH TLV (United States).
TWA: 5 mg/m³ 8 hour(s).
STEL: 10 mg/m³ 15 minute(s).
OSHA PEL Z2 (United States).
TWA: 5 mg/m³ 8 hour(s).

Olefin sulfide
Phosphoric acid ester, amine salt

Consult local authorities for acceptable exposure limits.

Continued on next page

Section 9. Physical and chemical properties

Physical state and Appearance	: Liquid.
Color	: Amber.
Odor	: Hydrocarbon.
Boiling/condensation point	: >316°C (>600,8°F)
Vapor pressure	: <0,013 kPa (<0,1 mm Hg)
Viscosity	: Kinematic (40°C (104°F)): 1,02 cm ² /s (102 cSt)
Solubility	: Insoluble in the following materials: cold water, hot water.
Physical/chemical properties comments	: Not available.

Section 10. Stability and reactivity

Stability and reactivity	: Stable under recommended storage and handling conditions (see section 7).
Conditions of instability	: Keep away from sources of ignition.
Incompatibility with various substances	: Reactive or incompatible with the following materials: oxidizing materials.
Hazardous decomposition products	: Decomposition products may include the following materials::carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ etc.), sulfur oxides (SO ₂ , SO ₃ etc.), Aldehyde.
Hazardous polymerization	: Will not occur.

Section 11. Toxicological information

Toxicity to animals	: Acute dermal toxicity (LD50): 1990 mg/kg [Rabbit]. (Dibutyl phosphonate).
Chronic effects on humans	: Repeated or prolonged exposure; Irritating to eyes, respiratory system and skin.
Other toxic effects on humans	: Not applicable.
Special remarks on toxicity to animals	: Repeated or prolonged exposure; Slightly irritating to the eyes, skin and respiratory system.

Section 12. Ecological information

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

Section 13. Disposal considerations

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

Consult your local or regional authorities.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	Not regulated.	-	-			-
TDG Classification	Not regulated.	-	-			-
IMDG Class	Not regulated.	-	-	-		<u>Emergency schedules (EmS)</u> -
IATA-DGR Class	Not regulated.	-	-	-		-

Continued on next page

Section 15. Regulatory information

HCS Classification : Not controlled under the HCS (United States).

U.S. Federal regulations : This product is in compliance with TSCA.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations : None of the components are listed.

California Prop. 65: No products were found.

**SEE MATERIAL SAFETY DATA SHEET FOR THIS PRODUCT.
FOR INDUSTRIAL USE ONLY.**

Section 16. Other information

Label requirements : MAY CAUSE ALLERGIC SKIN REACTION.

**Hazardous Material
Information System (U.S.A.)**

Health	*	1
Fire hazard		1
Reactivity		0
Personal protection		

**National Fire
Protection
Association (U.S.
A.)**



References : Not available.

Other special considerations : Not available.

Date of issue : 2011-10-21.

Date of previous issue : 2004-11-05.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.