

Date of issue : 2016-10-06

Version : 2

**Section 1. Identification****Product identifier**

**Product name** : Volvo Automatic Transmission Fluid  
AT102  
**Product no.** : 15143347  
**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

**Product use** : Transmission fluids

**Supplier's details** : Volvo Construction Equipment North  
America, Inc.  
312 Volvo Way  
Shippensburg, PA 17257  
United States

**Telephone no.** : + 1 (877) 823-1111

**In case of emergency**

**1-800-535-5053**

**E-mail address** : [sds@volvo.com](mailto:sds@volvo.com)  
[websds.volvo.com](http://websds.volvo.com)

**Section 2. Hazards identification**

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**General** : Not applicable.

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Other hazards which do not result in classification** : Not available.

**Supplemental label elements** : Keep out of 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.

**Section 3. Composition/information on ingredients**

**Substance/mixture** : Mixture

**CAS number/other identifiers**

**Product code** : 15143347

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear Methacrylate copolymer	30 - 40	848301-69-9
dimantine	1 - 5	-
3-(decyloxy)tetrahydrothiophene 1,1-dioxide	<0,25	-
	0 - 1	-

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.

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

### Section 4. First aid measures

#### Description of first aid measures

- Inhalation** : If inhaled, remove to fresh air.
- Skin contact** : Wash contaminated skin with soap and water.
- Eye contact** : In case of contact with eyes, rinse immediately with plenty of water.
- Ingestion** : Get medical attention. If swallowed, do not induce vomiting.

#### Most important symptoms/effects, acute and delayed

##### Potential acute health effects

- Inhalation** : This product is not likely to volatilize rapidly into the air because of its low vapor pressure.
- Skin contact** : Defatting to the skin.
- Eye contact** : May cause slight transient irritation.
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : May cause slight transient irritation.
- Skin** : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
- Eyes** : May cause slight transient irritation. ( redness )
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhea.

#### Indication of immediate medical attention and special treatment needed, if necessary

- Specific treatments** : No specific treatment.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Protection of first-aiders** : Refer to protective measures listed in sections 7 and 8.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

- Suitable** : Recommended: , alcohol-resistant foam, CO<sub>2</sub>, powders
- Not suitable** : Do not use water jet.
- Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
nitrogen oxides  
carbon oxides
- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### 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 specialized 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".
- Environmental precautions** : Avoid dispersal of spilled 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).

#### Methods and materials for containment and cleaning up

- Spill** : Stop leak if without risk. 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.

## Section 6. Accidental release measures

**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.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.

**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 reuse.

**Conditions for safe storage, including any incompatibilities** : Do not store in unlabeled containers. Keep container tightly closed. Keep container in a cool, well-ventilated area.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### Ingredient name

Distillates (petroleum), solvent-refined heavy paraffinic; Baseoil - unspecified

##### Occupational exposure limits

###### **ACGIH TLV (United States, 3/2015).**

TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Inhalable fraction

###### **NIOSH REL (United States, 10/2013).**

TWA: 5 mg/m<sup>3</sup> 10 hours. Form: Mist

STEL: 10 mg/m<sup>3</sup> 15 minutes. Form: Mist

###### **OSHA PEL (United States, 2/2013).**

TWA: 5 mg/m<sup>3</sup> 8 hours.

**Appropriate engineering controls** : Use only with adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

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

### 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.

### Personal protective equipment

**Respiratory protection** : Provide adequate ventilation.

**Hand protection** : For prolonged or repeated handling, use gloves : Chemical-resistant gloves.

**Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid.

**Color** : Red.

**Odor** : Petroleum oil

**Odor threshold** : Not available.

**pH** : Not available.

**Melting point** : Not available.

**Pour point** : -51 °C

**Boiling point** : >316°C (>600.8°F)

**Flash point** : Open cup: >180°C (>356°F) [Cleveland.]

**Burning time** : Not applicable.

**Burning rate** : Not applicable.

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

**Lower and upper explosive (flammable) limits** : Lower: 0.9%  
Upper: 7%

**Vapor pressure** : 0.013 kPa (0.1 mm Hg) [room temperature]

**Solubility** : Insoluble in the following materials: cold water and hot water.

**Vapor density** : >2 [Air = 1]

**Density** : Not available.

**Relative density** : 0.829

## Section 9. Physical and chemical properties

Partition coefficient: n-octanol/water	: >3.5
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0.285 cm <sup>2</sup> /s (28.5 cSt)
Molecular weight	: Not applicable.
SADT	: Not available.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Keep away from extreme heat. Keep away from sources of ignition.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Potential acute health effects

Inhalation	: This product is not likely to volatilize rapidly into the air because of its low vapor pressure.
Skin contact	: Defatting to the skin.
Eye contact	: May cause slight transient irritation.
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhea.

#### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: May cause slight transient irritation.
Skin	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Eyes	: May cause slight transient irritation. ( redness )
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhea.

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

#### Aspiration hazard

Name	Result
Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear	ASPIRATION HAZARD - Category 1

General	: Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
Mutagenicity	: Not applicable
Other information	: Not available.

## Section 12. Ecological information

Ecotoxicity : This product shows a low bioaccumulation potential.

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

#### Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Not available.			

#### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Distillates (Fischer-Tropsch), heavy, C18-50-branched, cyclic and linear	>6.5	-	high

#### Mobility in soil

Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Non water-soluble liquid
Other adverse effects	: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

## Section 14. Transport information

	DOT Classification	TDG Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information			-	-	-

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

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

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

### SARA 302/304

#### Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
No products were found.						

### SARA 311/312

**Classification** : Not applicable.

#### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Methacrylate copolymer	1 - 5	No.	No.	No.	Yes.	No.

### SARA 313

**Form R - Reporting requirements** : Not applicable

**Supplier notification** : Not applicable

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

### State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: Applicable

**Pennsylvania** : None of the components are listed.

**CSCA Article 39 (Accident Precaution Chemicals)**

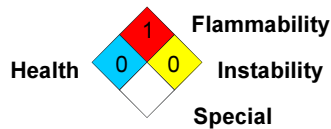
## Section 16. Other information

### History

Date of issue/Date of revision : 2016-10-06  
Version : 2

Hazardous Material Information System (U.S.A.) : National Fire Protection Association (U.S.A.) :

Health	*	0
Flammability		1
Physical hazards		0



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### Notice to reader

Conforms to US HCS (29 CFR 1910.1200).

☑ Indicates information that has changed from previously issued version.

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