

1 . Product and company identification

Trade name	: Volvo Automatic Transmission Fluid AT102	<u>In case of emergency</u>
Code	: 15143347	1-800-535-5053
Material uses	: Industrial applications: oil	
Supplier	: Volvo Construction Equipment North America, Inc. 312 Volvo Way Shippensburg, PA 17257 United States	
Telephone no.	: + 1 (877) 823-1111	

2 . Hazards identification

Physical state	: Liquid.
Odor	: Characteristic.
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.
Emergency overview	: No specific acute hazard. PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. 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.
Routes of entry	: Dermal contact. Eye contact. Inhalation. Ingestion.
<u>Potential acute health effects</u>	
Inhalation	: Slightly irritating to the respiratory system. Can enter lungs and cause damage.
Skin	: Slightly irritating to the skin.
Eyes	: Slightly irritating to the eyes.
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhea.
<u>Potential chronic health effects</u>	
Chronic effects	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Medical conditions aggravated by over-exposure	: Pre-existing skin disorders may be aggravated by over-exposure to this product.
Over-exposure signs/symptoms	: Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.skin lesion/eczema
Environmental effects	: Ecotoxicological data on the substances included in this product show that the product is not classified as harmful to the environment. Oils are in general persistent in the environment. Upon release the oil spreads on the soil or water surface and can affect the area for a long time.

See toxicological information (Section 11)

3 . Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
Mineral Oil, Solvent refined		60 - 100
Methacrylate copolymer		1 - 5

4 . First aid measures

Inhalation	: If inhaled, remove to fresh air. Get medical attention if symptoms occur.
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. Get medical attention if symptoms occur.
Ingestion	: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Get medical attention.

5 . Fire-fighting measures

Flammability of the product	: No specific fire or explosion hazard.
<u>Extinguishing media</u>	
Suitable	: Recommended: alcohol-resistant foam CO ₂ powders .
Not suitable	: Do not use water jet.
Hazardous combustion products	: Aldehydes, Carbon dioxide (CO ₂), sulfur oxides (SO ₂ , SO ₃ etc.)
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.

6 . Accidental release measures

Personal precautions	: Refer to protective measures listed in sections 7 and 8.
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).
Spill	: Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

7 . Handling and storage

Handling	: Wash thoroughly after handling.
Storage	: Keep container tightly closed in a cool, well-ventilated place. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. Do not store in unlabeled containers.

8 . Exposure controls/personal protection

<u>Product name</u>	<u>Exposure limits</u>
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No exposure limit value known.

Consult local authorities for acceptable exposure limits.

Engineering measures	: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.
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Personal protection

Eyes	: Use safety eyewear designed to protect against splash of liquids.
Skin	: Protective clothing
Respiratory	: Wear appropriate respirator when ventilation is inadequate.
Hands	: Chemical-resistant gloves.
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.

9 . Physical and chemical properties

Physical state	: Liquid.
Color	: Red.
Odor	: Characteristic.
Flash point	: Open cup: >180°C (>356°F) [Cleveland.]
Flammable limits	: Lower: 0,9% Upper: 7%
Boiling/condensation point	: >316°C (>600,8°F)
Relative density	: 0,846
Vapor pressure	: 0,013 kPa (0,1 mm Hg)
Vapor density	: 2 [Air = 1]
Viscosity	: Kinematic (40°C (104°F)): 0,3 cm ² /s (30 cSt)
Solubility	: Insoluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see Section 7).
Conditions to avoid	: heat. Keep away from sources of ignition.
Materials to avoid	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Aldehydes, Carbon dioxide (CO ₂), sulfur oxides (SO ₂ , SO ₃ etc.)
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.
Conditions of reactivity	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.

11 . Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Not applicable.				

Carcinogenicity

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Not applicable.						

Other toxic effects on humans	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
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12 . Ecological information

Environmental effects	: Ecotoxicological data on the substances included in this product show that the product is not classified as harmful to the environment. Oils are in general persistent in the environment. Upon release the oil spreads on the soil or water surface and can affect the area for a long time.
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13 . Disposal considerations

Waste disposal	: Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Refer to Section 7: **HANDLING AND STORAGE** and Section 8: **EXPOSURE CONTROLS/PERSONAL PROTECTION** for additional handling information and protection of employees.

14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		
TDG Classification	Not regulated.	-	-	-		
IMDG Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		

PG* : Packing group

15 . Regulatory information

HCS Classification : Not regulated.

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: 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.

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 : Not applicable.

California Prop. 65

16 . Other information

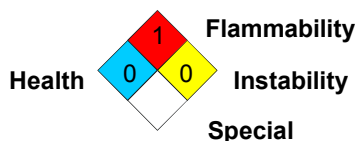
Emergency overview (label) : No specific acute hazard.

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION. 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.

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

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

Health	0
Flammability	1
Physical hazards	0



16 . Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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✔ Indicates information that has changed from previously issued version.

Notice to reader

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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.