



Date of issue : 6/11/2015.

Version : 1

Section 1. Identification

1.1 Product identifier

Product name : Transmission oil
Product no. : 31280771
Product type : Liquid.

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

Product use : Lubricating grease and oil.

1.3 Details of the supplier of the safety data sheet

Supplier's details : Volvo Car Customer Service
SE 405 31 Göteborg
Sweden

Telephone no. : +46-31-66 67 50

1.4 Emergency telephone number

Emergency phone : +46-31-66 67 50 (during office hours)

E-mail address : sds@volvo.com
websds.volvo.com

Section 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.

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

Not classified.

See section 11 for toxicological information and section 12 for ecotoxicological information.

2.2 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.
Supplemental label elements : Safety data sheet available on request.
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.

2.3 Other hazards

Other hazards which do not result in classification : Defatting to the skin.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

CAS number/other identifiers

EC number : Mixture.
Product code : 31280771

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Section 3. Composition/information on ingredients

Ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	50 - 100	Not classified.	Asp. Tox. 1, H304	[1]
Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	REACH #: 01-2119486452-34 EC: 500-183-1 CAS: 68037-01-4	10 - 25	Not classified.	Asp. Tox. 1, H304	[1]
Dec-1-ene, trimers, hydrogenated	REACH #: 01-2119493949-12 EC: 500-393-3 CAS: 157707-86-3	10 - 25	Not classified.	Asp. Tox. 1, H304	[1]
			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.	

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

[5] Substance of equivalent concern

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

4.1 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. Get medical attention if symptoms occur.
- Ingestion** : Get medical attention. If ingested, do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Inhalation** : Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Long term exposure to high concentrations of oil mist or vapors may cause lung damage.
- Skin contact** : Defatting to the skin.
- Eye contact** : May cause slight transient irritation.
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Long term exposure to high concentrations of oil mist or vapors may cause lung damage.
- Skin** : 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.
- Eyes** : May cause slight transient irritation. (redness)
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhoea.

4.3 Indication of any immediate medical attention and special treatment needed

- Specific treatments** : No specific treatment.
- Notes to physician** : Treat symptomatically.
- Protection of first-aiders** : Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 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

Hazards from the substance or mixture : 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:
carbon oxides

5.3 Advice for firefighters

Special precautions for firefighters : 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

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 : 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.

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.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8).

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.

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

7.3 Specific end use(s)

Recommendations : Lubricating grease and oil.

Industrial sector specific solutions : Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name

Occupational exposure limits

No exposure limit value known.

Derived effect levels

No DELs available.

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

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

Section 8. Exposure controls/personal protection

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 : nitrile

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Liquid.
Colour	: Brown.
Odour	: Hydrocarbon.
Odour threshold	: Not available.
pH	: Not available.
Melting point	: Not available.
Pour point	: -57 °C
Boiling point	: Not available.
Flash point	: Open cup: 226°C (438,8°F) [Cleveland.]
Burning time	: Not applicable.
Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapour pressure	: Not available.
Solubility	: Insoluble in the following materials: cold water and hot water.
Vapour density	: Not available.
Density	: 0,852 g/cm ³ [15°C]
Relative density	: 0,852
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0,322 cm ² /s (32,2 cSt)
Molecular weight	: Not applicable.

9.2 Other information

SADT : Not available.

Section 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 : No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

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

Section 11. Toxicological information

11.1 Information on toxicological effects

Potential acute health effects

Inhalation : Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation. Long term exposure to high concentrations of oil mist or vapors may cause lung damage.

Skin contact : Defatting to the skin.

Eye contact : May cause slight transient irritation.

Ingestion : Ingestion may cause gastrointestinal irritation and diarrhoea.

Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Long term exposure to high concentrations of oil mist or vapors may cause lung damage.
Skin	: 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.
Eyes	: May cause slight transient irritation. (redness)
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhoea.

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

Aspiration hazard

Name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, hydrogenated	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Dec-1-ene, trimers, hydrogenated	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

12.1 Toxicity

Ecotoxicity	: Ecotoxicological data on the substances included in this product show that the product is not classified as harmful to the environment.
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Relevant information for the mixture and/or the ingredients is presented below.

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Not available.			

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})	: Not available.
Mobility	: Non water-soluble liquid

12.5 Results of PBT and vPvB assessment

PBT	: Not applicable. P: Not available. B: Not available. T: Not available.
vPvB	: Not applicable. vP: Not available. vB: Not available.

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

European waste catalogue (EWC)

Waste code	Waste designation
13 02 08*	other 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.
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 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 : **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.

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

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

Substances of very high concern

None of the components are listed.

Other EU regulations

Product use : Consumer applications, Industrial applications, Professional applications.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

Section 16. Other information

Full text of abbreviated H statements : H304 May be fatal if swallowed and enters airways.

Full text of classifications [CLP/GHS] : Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1

History

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Notice to reader

Conforms to 1907/2006/EC (REACH), Article 31

▣ Indicates information that has changed from previously issued version.