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Version : 1.01

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****Product name** : Super Wet Brake Transaxle Oil  
WB102**Product no.** : 15058290**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** : Volvo Construction Equipment AB  
Customer Support Division  
SE-631 85 Eskilstuna  
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.**Hazardous ingredients** : -**Supplemental label elements** : 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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Identifiers	%	<u>Classification</u>		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Mineral Oil, Solvent refined	-	60 - 100	Not classified.	Not classified.	[2]
Calcium Sulphonate	-	1 - 5	R53	Aquatic Chronic 4, H413	[1]
Zinc	EC: 272-028-3	1 - 5	Xi; R36/38	Skin Irrit. 2, H315	[1]
Dialkyldithiophosphate	CAS: 68649-42-3		N; R51/53	Eye Irrit. 2, H319 Aquatic Chronic 2, H411	
			<b>See Section 16 for the full text of the R-phrases declared above.</b>	<b>See Section 16 for the full text of the H statements declared above.</b>	

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.
- Skin contact** : Wash with soap and water. Get medical attention if symptoms occur.
- 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** : Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.
- Skin contact** : Defatting to the skin. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first. Within a few hours, tissue will become swollen, discoloured and extremely painful.
- Eye contact** : Slightly irritating to the eyes.
- Ingestion** : Ingestion may cause gastrointestinal irritation and diarrhoea.

##### Over-exposure signs/symptoms

- Inhalation** : Long-term exposure may cause headache, nausea or weakness.
- Skin contact** : Skin inflammation is characterised by itching, scaling, reddening or, occasionally, blistering.
- 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, CO<sub>2</sub>, 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  
phosphorus oxides  
metal oxide/oxides

#### 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 contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid contact of spilt 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 reusing.

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

### 7.3 Specific end use(s)

**Recommendations** : Lubricating grease and oil.

**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>
Mineral Oil, Solvent refined	<b>EU OEL (Europe).</b> TWA: 5 mg/m <sup>3</sup> , 0 times per shift, 8 hours.

#### 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.

#### 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 or dusts.

**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	: Characteristic.
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	: Closed cup: >198°C (>388.4°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and 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) [room temperature]
Vapour density	: >1 [Air = 1]
Relative density	: Not available.
Density	: 0.884 g/cm <sup>3</sup> [15°C (59°F)]
Solubility	: Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: >3.5
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Kinematic (40°C (104°F)): 0.55 cm <sup>2</sup> /s (55 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	: No specific data.
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 phosphorus oxides metal oxide/oxides

## 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.
Skin contact	: Defatting to the skin. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first. Within a few hours, tissue will become swollen, discoloured and extremely painful.
Eye contact	: Slightly irritating to the eyes.
Ingestion	: Ingestion may cause gastrointestinal irritation and diarrhoea.

#### Over-exposure signs/symptoms

Inhalation	: Long-term exposure may cause headache, nausea or weakness.
Skin contact	: Skin inflammation is characterised by itching, scaling, reddening or, occasionally, blistering.
Eye contact	: May cause eye irritation.
Ingestion	: No specific data.

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

**11. TOXICOLOGICAL INFORMATION****Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Zinc Dialkyldithiophosphate	Eyes - Severe irritant Skin - Irritant	-	-	-	-

**Potential chronic health effects**

**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.

**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. 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.

Product/ingredient name	Species	Exposure	Result
Zinc Dialkyldithiophosphate	Daphnia - Daphnia	48 hours	Acute EC50 1 to 1.5 mg/l
	- Daphnia magna		
	Fish - Pimephales promelas	96 hours	Acute LC50 1 to 5 mg/l Fresh water

**12.2 Persistence and degradability**

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Mineral Oil, Solvent refined	-	-	Not readily
Calcium Sulphonate	-	-	Not readily
Zinc Dialkyldithiophosphate	-	-	Not readily

**12.3 Bioaccumulative 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.

**vPvB** : Not applicable.

**12.6 Other adverse effects** : Not applicable.

**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 05*	mineral-based non-chlorinated 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.

**14. TRANSPORT INFORMATION**

**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 applicable.	Not applicable.	Not applicable.

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 authorisationSubstances of very high concern

None of the components are listed.

Other EU regulations

Product use : Industrial applications.

**16. OTHER INFORMATION**

**Full text of abbreviated R phrases** : R36/38- Irritating to eyes and skin.  
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]** : Xi - Irritant  
N - Dangerous for the environment

**Full text of abbreviated H statements** : H315 Causes skin irritation.  
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]** : Aquatic Chronic 2, H411 AQUATIC TOXICITY (CHRONIC) - Category 2  
Aquatic Chronic 4, H413 AQUATIC TOXICITY (CHRONIC) - Category 4  
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2

History

Date of issue / Date of revision : 2012-12-18.

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Conforms to 1907/2006/EC, Article 31

 Indicates information that has changed from previously issued version.