

Prod.Name: LSC Transmission Fluid 301
Manufacturer: Svenska Statoil AB
HMCS ID: 1197211
SUC: 04 - Metal Working Fluids and Lubricants

MATERIAL SAFETY DATA SHEET

Revision: 03.Apr.2008
Effective: 03.Apr.2008
Print Date: 19.Nov.2008
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1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT INFORMATION

Product Name: LSC Transmission Fluid 301

External Keys:

88863349 Distributable Material (Part #)
Getriebeol - Primary Tradename - Distributable Material
Kupplung
Ausgleichsgetriebe
Transmission
Oil

MANUFACTURER INFORMATION

Manufacturer: Svenska Statoil AB

Address:

SWE 149 22 Nynäshamn Box 194

Communication Lines:

Phone 08-429 60 00
Fax 08-429 68 51
Phone 020-99 60 00
Phone +46 8 33 70 43

2 INGREDIENT INFORMATION

FORMULATION

Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
HIGHLY REFINED MINERAL OILS	989987-80-2	>	90	% Wt	No
Sulfonic acids, petroleum, calcium salts, overbased	68783-96-0	<	2	% Wt	No
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	<	2	% Wt	No

Comment:

Highly refined mineral oil = Group name base oil, unspecified Cas/Einecs no: 101316-72-7/309-877-7; 74869-22-0/278-012-2; 64742-62-7/265-166-0; 64742-53-6/265-156-6; 64742-52-5/265-155-0; 64742-56-9/265-159-2 for which the DMSO extract <3%, IP 346 or Group name gasoil, unspecified 64742-46-7/265-148-2 or Higly refined base oil 8042-47-5/232-455-8; 92045-45-9/295-426-9 which fulfills Concawe.

3 HAZARDS IDENTIFICATION

Hazards Overview:

Used oil may contain harmful contaminants.

Specific Hazards (Routes Of Exposure):

<u>Exposure Routes</u>	<u>Observation</u>
Ingestion	Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis.
Skin Contact	Does not absorb in acute toxic amounts trough the skin. Continuos or repeated skin contact combined with poor personal hygiene may cause dermatitis like eczema and oil acne. Product that under high pressure has been forced under the skin, may cause serious cell damage/death under the skin.
Inhalation	Exposure to high concentrations of oil mist may cause irritation to the respiratory organ.
Eye Contact	Exposure to the eye is slightly irritating, but does not injure eye tissue.

Medical Conditions Aggravated By Exposure:

Not provided

4 FIRST AID MEASURES

First Aid By::

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Inhalation	Fresh air, rest and keep warm. Rinse nose, mouth and throat with water. Seek medical advice if symptoms persist.
Skin Contact	Wash the skin with soap and water. Remove contaminated clothing as soon as possible. Seek medical advice if symptoms persist. Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.
Eye Contact	Flush with water. Contact physician if discomfort continues.
Ingestion	DO NOT induce vomiting. Get medical advice.

5 FIRE FIGHTING MEASURES

Flash Point:

> 190 °C ASTM D 92

Extinguishing Media:

Foam, powder, carbon dioxide.

Non Suitable Extinguishing Media:

IMPROPER EXTINGUISHING MEDIA: Water.

Fire and Explosion Hazards:

Heated product can form flammable vapours. Combustion can produce irritating fumes. Carbon monoxide (CO) may be formed in the event of incomplete combustion.

Special Fire Fighting Procedures:

OTHER INFORMATION: Fire in closed areas should only be extinguished by trained personal. Containers near a fire must be moved and/or cooled with water.

Comment:

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Use respiratory protection.

6 ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IN CASE OF ACCIDENTAL RELEASE

Personal Precautions:

Mark the spillage. Use personal protection as stated in MSDS section 8.

Environmental Precautions:

Contain the spillage using sand, soil or other suitable material. Avoid seepage into the drains. Collect the spillage using cloths or an oil absorbent materiel. Immediately inform the government agency (fire brigade) if the spillage escapes into the drains or waterways. At large spillage inform the government agency (fire brigade). Collected material to be handled as advised: Disposal through approved facilities is recommended. Ensure conformity with procedures approved by the Local Authority.

SPILL OR LEAK PROCEDURES

Recovery:

Water: Contain the spillage and recover as much as possible. Smaller volumes can be recovered using suitable absorbents.

7 HANDLING AND STORAGE

HANDLING

Safe Handling Procedures:

Store correctly to avoid spillage and oil vapours.

STORAGE

Storage Conditions:

Best under cover. Store container on their side so that the filling bungs are under the fluid level.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures:

Ensure good ventilation

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment (PPE):

Eye Protection	Use suitable face visor or goggles.
Hand Protection	Impervious protective gloves of Viton or nitrile rubber.
Skin Protection	Oil impervious protective clothing.
General Protection	For more information contact supplier of protection equipment.

Special Precautions:

EXPOSURE CONTROL: Ensure a high level of personal hygiene. Do not wear cloths that are contaminated with product. Do not put oil-wet cloth / twist in your pocket. If there is a risk of direct contact or splashes, wear face visor or goggles, impervious gloves and protective clothing.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical State: Liquid

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Color: Yellowish

Odor: Oil, faint

PHYSICAL PROPERTIES

Changes of State:

Boiling Point > 200 °C Initial Boiling Point

Density:

Density Approximate 863 kg/m³ = 15 °C ASTM D 4052

Specific Gravity:

= 0.863 Specific Gravity calculated from MSDS data by GM Tech Review.

Solubility:

Water Negligible Soluble in organic solvents.

Viscosity:

Viscosity Approximate 25 mm²/s = 40 °C ASTM D 445

10 STABILITY AND REACTIVITY

STABILITY INFORMATION

Stability Under Normal Conditions: Stable

Incompatible Materials:

Strong oxidizing agents.

HAZARDOUS DECOMPOSITION

Reactions:

Type of Reaction
Decomposition

Reaction Products

HAZARDOUS DECOMPOSITION PRODUCTS: When heated or during combustion carbon monoxide (CO) and other health hazardous compounds may be formed.

11 TOXICOLOGICAL INFORMATION

SCIENTIFIC OBSERVATIONS

LETHAL LIMIT VALUES

Additional Information:

GENERAL: Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis. Does not absorb in acute toxic amounts through the skin. Exposure to high concentrations of oil mist may cause irritation to the respiratory organ. Exposure to the eye is slightly irritating, but does not injure eye tissue. Continuous or repeated skin contact combined with poor personal hygiene may cause dermatitis like eczema and oil acne. Used oil may contain harmful contaminants.

SKIN CONTACT: Product that under high pressure has been forced under the skin, may cause serious cell damage/death under the skin.

12 ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT

Comment:

DEGRADABILITY: Potentially degradable, but will persist in the environment for long periods.

ACCUMULATION: Contain components with the potential to bioaccumulate. (logPow > 3)

OTHER EFFECTS: An oil film may cause physical damage to organisms and disturb the transportation of oxygen in the intermediate zone between air/water or water/air.

OTHER INFORMATION: NB: The information above refer to: Highly refined mineral oil (DMSO < 3%, IP 346).

ECOTOXICITY

Comment:

Not harmful to aquatic organisms. Expected LC/EC 50 value > 100 mg/l.

MOBILITY: Low solubility in water, floats on water.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Information:

Packing: Disposal through approved facilities is recommended. Ensure conformity with procedures approved by the Local Authority.

Packing: Disposal through approved facilities is recommended.

CATEGORY OF WASTE: EWC 13 02 05.

Comment:

This material, if discarded, should be considered an European hazardous waste in accordance with European Law. Ensure conformity with procedures approved by the Local Authority.

14 TRANSPORT INFORMATION

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DOT Information:

Not covered by the transportation of dangerous substances act.

Comment:

Classified as Dangerous Goods: No

15 REGULATORY INFORMATION

LABELLING

Hazard Codes:

NFPA Health 1
NFPA Flammability 1
NFPA Reactivity 0

Comment:

NFPA assigned by General Motors Technical Review.

NATIONAL REGULATIONS

SARA 311/312: No

SARA 313: No

Immediate Health: No

Delayed Health: No

Fire: No

Sudden Pressure Release: No

Reactive: No

Other Regulation:

TSCA

All ingredients are either on or exempt from the TSCA Inventory.

16 OTHER INFORMATION