

Top Gear TDL 85W-140 - (TO2370)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 14-4-2015

Revision date: 5-6-2015

Supersedes:

Version: 1.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : Top Gear TDL 85W-140 - (TO2370)
Product code : TO2370
Product group : Lubricant

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Derfal Limited,
North West Business Park,
Collooney, Co. Sligo, F91PPT0
Ireland
Ph: 0719130033
<https://falzol.ie/>

1.4. Emergency telephone number

Emergency number : 0719130033

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|--|--|---|---------|
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2566 '+353 1 809 2166 (public, 8am - 10pm, 7/7) | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Sensitisation — Skin, Category 1 H317 Calculation method

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) :

Warning

Hazardous ingredients :

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl ; Polysulfides, di-tert-Bu

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction

Precautionary statements (CLP) :

P261 - Avoid breathing dust, fume, gas, mist, spray, vapours
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear eye protection, face protection, protective gloves
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P321 - Specific treatment (see Notes to physician on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|--|
| Polysulfides, di-tert-Bu | (CAS No) 68937-96-2 (EC no) 273-103-3 (EC index no) 01-2119540515-43 (REACH-no) 01-2119540515-43 | 1 - 5 | Skin Sens. 1, H317 Aquatic Chronic 3, H412 |
| Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl | (EC no) 931-384-6 (EC index no) 01-2119493620-38 (REACH-no) 01-2119493620-38 | 0,5 - 5 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Mineral oil substance with a Community workplace exposure limit (Note L) | (CAS No) 74869-22-0 (EC no) 278-012-2 (EC index no) 649-484-00-0 | 0,5 - 5 | Asp. Tox. 1, H304 |

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see ... on this label). Wash contaminated clothing before reuse. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : May cause an allergic skin reaction.
- Symptoms/injuries after skin contact : May cause an allergic skin reaction.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

- Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

| | | |
|---------------------------------|---|-----------------------------|
| USA - ACGIH | ACGIH TWA (mg/m ³) | 5 |
| Mineral oil (74869-22-0) | | |
| EU | IOELV TWA (mg/m ³) | 5 mg/m ³ |
| EU | IOELV STEL (mg/m ³) | 10 mg/m ³ |
| Belgium | Limit value (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Belgium | Short time value (mg/m ³) | 10 mg/m ³ 15 Min |
| Bulgaria | OEL TWA (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 10 mg/m ³ |
| Czech Republic | Expoziční limity (NPK-P) (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Denmark | Grænseværdie (kortvarig) (mg/m ³) | 1 mg/m ³ |
| Finland | HTP-arvo (15 min) | 5 mg/m ³ 8 Hrs |
| Greece | OEL TWA (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Hungary | CK-érték | 5 mg/m ³ |
| Ireland | OEL (8 hours ref) (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Latvia | OEL TWA (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Lithuania | IPRV (mg/m ³) | 1 mg/m ³ 8 Hrs |
| Lithuania | TPRV (mg/m ³) | 3 mg/m ³ 15 Min |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Portugal | OEL TWA (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Portugal | OEL STEL (mg/m ³) | 10 mg/m ³ |
| Romania | OEL TWA (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Romania | OEL STEL (mg/m ³) | 10 mg/m ³ 15 Min |
| Slovakia | NPHV (priemerná) (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Spain | VLA-ED (mg/m ³) | 5 mg/m ³ 8 Hrs |
| Spain | VLA-EC (mg/m ³) | 10 mg/m ³ 15 Min |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 1 mg/m ³ |
| Sweden | kortidsvärde (KTV) (mg/m ³) | 3 mg/m ³ |
| United Kingdom | WEL TWA (mg/m ³) | 500 mg/m ³ |
| Norway | Grenseverdier (AN) (mg/m ³) | 1 mg/m ³ |
| USA - OSHA | OSHA PEL (TWA) (mg/m ³) | 5 mg/m ³ |

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8.2. Exposure controls

| | |
|-----------------------------------|--|
| Appropriate engineering controls | : Use adequate ventilation to keep oil mist below applicable standard. Use splash goggles when eye contact due to splashing is possible. Ocular shower with suitable liquid. |
| Personal protective equipment | : Gloves. Safety glasses. Protective clothing. Avoid all unnecessary exposure. |
| Materials for protective clothing | : Wear suitable protective clothing |
| Hand protection | : Neoprene or nitrile rubber gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent). Time of penetration is to be checked with the glove producer |
| Eye protection | : Chemical goggles or safety glasses. Use splash goggles when eye contact due to splashing is possible. EN 166 |
| Skin and body protection | : No special clothing/skin protection equipment is recommended under normal conditions of use. Avoid prolonged and repeated contact with skin. If repeated skin contact or contamination of clothing is likely, protective clothing should be worn |
| Respiratory protection | : Where excessive vapour, mist, or dust may result, use approved respiratory protection equipment. Particle filter. EN 143 |



| | |
|---------------------------------|-------------------------------------|
| Environmental exposure controls | : Avoid release to the environment. |
|---------------------------------|-------------------------------------|

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--------------------------------|
| Physical state | : Liquid |
| Colour | : No data available |
| Odour | : No data available |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : -12 °C |
| Boiling point | : No data available |
| Flash point | : > 200 °C |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : 367 mm ² /s @40°C |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

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10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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

Acute toxicity : Not classified

| Mineral oil (74869-22-0) | |
|---|----------------|
| LD50 oral (rat) | > 5000 mg/kg |
| LD50 dermal (rabbit) | > 5000 mg/kg |
| LC50 inhalation (rat) (Vapours - mg/l/4h) | > 5000 mg/l/4h |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

| | |
|--|----------------------|
| NOAEL (subacute, oral, animal/male, 28 days) | 500 mg/kg bodyweight |
| NOAEL (subacute, oral, animal/female, 28 days) | 150 mg/kg bodyweight |
| Aspiration hazard | : Not classified |

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| | |
|----------------------|------------------------------|
| Viscosity, kinematic | 367 mm ² /s @40°C |
|----------------------|------------------------------|

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14- tert-alkyl

| | |
|------------------------|--------------------------------------|
| LC50 fish 1 | 24 mg/l Rainbow Trout |
| LC50 fish 2 | 8,5 mg/l Fathead Minnow |
| EC50 Daphnia 1 | 91,4 mg/l |
| EC50 96h algae (1) | 6,4 mg/l |
| NOEC (acute) | 3,2 mg/l 96 Hrs Rainbow Trout |
| NOEC chronic crustacea | 0,12 mg/l 21 d Daphnia magna |
| NOEC chronic algae | 1,7 mg/l 21 d Selenastrum caprimutum |

Polysulfides, di-tert-Bu (68937-96-2)

| | |
|--------------------|----------|
| EC50 Daphnia 1 | 63 mg/l |
| EC50 72h algae (1) | 100 mg/l |

Mineral oil (74869-22-0)

| | |
|------------------------|--------------|
| LC50 fish 1 | 100 mg/l |
| EC50 Daphnia 1 | 10000 mg/l |
| EC50 72h algae (1) | 100 mg/l |
| NOEC chronic crustacea | 10 mg/l 21 d |

12.2. Persistence and degradability

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Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

| | |
|-------------------------------|--------------------------|
| Persistence and degradability | Not biodegradable. |
| Biodegradation | 7,4 % 28 d OECD TG 301 B |

Polysulfides, di-tert-Bu (68937-96-2)

| | |
|----------------|----------------------------|
| Biodegradation | 13 % 28 DAYS OECD TG 301 B |
|----------------|----------------------------|

Mineral oil (74869-22-0)

| | |
|----------------|----------------------------|
| Biodegradation | 31 % 28 Days OECD TG 301 B |
|----------------|----------------------------|

12.3. Bioaccumulative potential

Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide, propoxylated, esterified with diphosphorus pentaoxide, and salted by amines, C12-14- tert-alkyl

| | |
|---------|--------------|
| Log Kow | 9,4 0.1 Days |
|---------|--------------|

Polysulfides, di-tert-Bu (68937-96-2)

| | |
|---------|------------|
| Log Kow | 6 0.1 DAYS |
|---------|------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Waste disposal recommendations : Dispose of contents/container to ..

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable
UN-No. (ADN) : Not applicable
UN-No. (RID) : Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

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14.4. Packing group

| | |
|----------------------|------------------|
| Packing group (ADR) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |
| Packing group (ADN) | : Not applicable |
| Packing group (RID) | : Not applicable |

14.5. Environmental hazards

| | |
|-------------------------------|--|
| Dangerous for the environment | : No |
| Marine pollutant | : No |
| Other information | : No supplementary information available |

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

Ministry's list of carcinogens : Polysulfides, di-tert-Bu, Mineral oil are listed

Ministry's list of mutagens : Polysulfides, di-tert-Bu is listed

NON-exhaustive list of reproductive toxins - Breastfeeding : None of the components are listed

NON-exhaustive list of reproductive toxins - Fertility : None of the components are listed

NON-exhaustive list of reproductive toxins - Evolution : None of the components are listed

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

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Indication of changes:

| | | | |
|------|---|----------|--|
| 2.1 | Adverse physicochemical, human health and environmental effects | Added | |
| 2.2 | Precautionary statements (CLP) | Modified | |
| 4.1 | First-aid measures after skin contact | Modified | |
| 4.1 | First-aid measures after inhalation | Modified | |
| 4.1 | First-aid measures after ingestion | Modified | |
| 4.1 | First-aid measures after eye contact | Modified | |
| 4.2 | Symptoms/injuries after skin contact | Added | |
| 4.3 | Other medical advice or treatment | Added | |
| 5.2 | Hazardous decomposition products in case of fire | Added | |
| 5.3 | Protection during firefighting | Modified | |
| 6.1 | Protective equipment | Modified | |
| 6.1 | Emergency procedures | Modified | |
| 6.2 | Environmental precautions | Modified | |
| 6.3 | Other information | Added | |
| 6.3 | Methods for cleaning up | Modified | |
| 6.4 | Reference to other sections (8, 13) | Modified | |
| 7.1 | Hygiene measures | Modified | |
| 7.1 | Precautions for safe handling | Modified | |
| 7.2 | Storage conditions | Modified | |
| 8.2 | Environmental exposure controls | Added | |
| 8.2 | Appropriate engineering controls | Added | |
| 8.2 | Skin and body protection | Added | |
| 8.2 | Eye protection | Modified | |
| 9.1 | Melting point | Added | |
| 10.1 | Reactivity | Added | |
| 12.1 | Ecology - general | Added | |
| 13.1 | Waste treatment methods | Added | |
| 13.1 | Waste disposal recommendations | Modified | |
| 16 | Abbreviations and acronyms | Added | |

Abbreviations and acronyms:

| | |
|------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |

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| | |
|-------|---|
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| PNEC | Predicted No-Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rai |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Full text of H- and EUH-statements:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS EU (REACH Annex II)

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