

TRANSMISSION FLUID F-GT



SAFETY DATA SHEET

Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law

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VERSION: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Transmission Fluid F-GT
Product code : Ford Internal Ref.: 518457
SDS Number : 13113
Product use : Professional use

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

1.2.1. Relevant identified uses

Function or use category : Lubricant

1.2.2. Uses advised against

Restrictions on use : None known

1.3. Details of the supplier of the safety data sheet

Supplier

Ford-Werke GmbH
Edsel-Ford-Str. 2-14
50769 Cologne
Germany
+49 221 90-33333
sdseu@ford.com

Distributor

Ford Motor Company Ltd.
Parts Distribution Centre
Royal Oak Way South
NN11 8NT Daventry, Northants
United Kingdom
+44 1327 305 198

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH – 24/7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations

| | | |
|-----------------------|---|--|
| Environmental hazards | Hazardous to the aquatic environment – H412 Chronic Hazard, Category 3 | Harmful to aquatic life with long lasting effects. |
|-----------------------|---|--|

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations

Signal word -

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

Component

| | |
|--|---|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | PBT: not yet assessed vPvB: not yet assessed |
|--|---|

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

| Chemical name | CAS- No EC- No Index No RRN | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Notes |
|---|--|-------------|--|----------|
| Dec-1-ene, homopolymer, hydrogenated | 68037-01-4 500-183-1 - 01-2119486452-34-XXXX | 20 – 50 | Asp. Tox. 1, H304 | |
| Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based | 72623-87-1 276-738-4 649-483-00-5 01-2119474889-13-XXXX | 20 – 50 | Asp. Tox. 1, H304 | (Note L) |
| Distillates (petroleum), hydrotreated heavy paraffinic | 64742-54-7 265-157-1 649-467-00-8 01-2119484627-25-XXXX | 1 – 10 | Asp. Tox. 1, H304 | (Note L) |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene | 68411-46-1 270-128-1 - 01-2119491299-23-XXXX | 0.1 – 1 | Repr. 2, H361f Aquatic Chronic 3, H412 | |
| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol | 1218787-32-6 620-540-6 - 01-2119510877-33-XXXX | 0.1 – 0.25 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1.0) | |
| 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine | 218141-16-3 939-485-7 - 01-2119974116-35-XXXX | 0.001 – 0.1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=1.0) | |
| Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs. | 71786-60-2 276-014-8 - | 0.01 – 0.1 | Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) | |

| | | | | |
|--|-----------------------|--|---|--|
| | 01-2119957489-17-XXXX | | Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 2, H361d Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10) | |
|--|-----------------------|--|---|--|

Note L - The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide 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), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention. |
| First-aid measures after skin contact | : Take off immediately all contaminated clothing and wash it before reuse. Wash immediately with plenty of water. Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Do not induce vomiting. Rinse mouth thoroughly. Get immediate medical advice/attention. |

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

| | |
|-------------------------------------|------------------------------|
| Symptoms/effects after skin contact | : May cause skin irritation. |
| Symptoms/effects after eye contact | : May cause eye irritation. |

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 | : Alcohol resistant foam, carbon dioxide (CO ₂), powder, water spray. |
| Unsuitable extinguishing media | : Do not use water jet as an extinguisher, as this will spread the fire. |

5.2. Special hazards arising from the substance or mixture

| | |
|-------------|---|
| Fire hazard | : During fire, gases hazardous to health may be formed. |
|-------------|---|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Firefighting instructions | : Move containers from fire area if it can be done without personal risk. Use standard firefighting procedures and consider the hazards of other involved materials. |
| 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

| | |
|----------------------|--|
| Protective equipment | : Wear appropriate protective equipment and clothing during clean-up. Use personal protection recommended in Section 8 of the MSDS. |
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. |

6.1.2. For emergency responders

- Protective equipment : Wear recommended personal protective equipment. For personal protection, see section 8 of the SDS.
- Emergency procedures : Keep unnecessary personnel away. Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak without risks if possible. Move containers from fire area if it can be done without personal risk.
- Methods for cleaning up : Large Spills: Stop leak if safe to do so. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid release to the environment. Avoid contact with skin, eyes and clothing.
- Hygiene measures : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Ensure adequate ventilation, especially in confined areas.
- Storage conditions : Store locked up. Store in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Lubricant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based (72623-87-1)

DNEL/DMEL (Workers)

- Long-term - systemic effects, dermal 0.97 mg/kg bodyweight/day
- Long-term - systemic effects, inhalation 2.73 mg/m³

| | |
|---------------------------------------|-----------------------|
| Long-term - local effects, inhalation | 5.58 mg/m³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, oral | 0.74 mg/kg bodyweight |

PNEC (Oral)

| | |
|---------------------------------|-----------------|
| PNEC oral (secondary poisoning) | 9.33 mg/kg food |
|---------------------------------|-----------------|

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

DNEL/DMEL (Workers)

| | |
|--|---------------------------|
| Long-term - systemic effects, dermal | 0.97 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 2.73 mg/m³ |
| Long-term - local effects, inhalation | 5.58 mg/m³ |

DNEL/DMEL (General population)

| | |
|------------------------------------|---------------------------|
| Long-term - systemic effects, oral | 0.74 mg/kg bodyweight/day |
|------------------------------------|---------------------------|

PNEC (Oral)

| | |
|---------------------------------|---------------------------------|
| PNEC oral (secondary poisoning) | 9.33 mg/kg food Food/feed stuff |
|---------------------------------|---------------------------------|

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1)

DNEL/DMEL (Workers)

| | |
|--|-------------------|
| Long-term - systemic effects, dermal | 0.44 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 0.31 mg/m³ |

DNEL/DMEL (General population)

| | |
|--|-------------------|
| Long-term - systemic effects, oral | 0.05 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 0.08 mg/m³ |
| Long-term - systemic effects, dermal | 0.22 mg/kg bw/day |

PNEC (Water)

| | |
|--------------------------------------|------------|
| PNEC aqua (freshwater) | 0.034 mg/l |
| PNEC aqua (marine water) | 0.003 mg/l |
| PNEC aqua (intermittent, freshwater) | 0.51 mg/l |

PNEC (Sediment)

| | |
|------------------------------|-----------------|
| PNEC sediment (freshwater) | 0.446 mg/kg dwt |
| PNEC sediment (marine water) | 0.045 mg/kg dwt |

PNEC (Soil)

| | |
|-----------|----------------|
| PNEC soil | 17.6 mg/kg dwt |
|-----------|----------------|

PNEC (Oral)

| | |
|---------------------------------|------------------|
| PNEC oral (secondary poisoning) | 0.833 mg/kg food |
|---------------------------------|------------------|

PNEC (STP)

| | |
|-----------------------------|---------|
| PNEC sewage treatment plant | 10 mg/l |
|-----------------------------|---------|

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine (218141-16-3)

DNEL/DMEL (Workers)

| | |
|--|------------------|
| Long-term - systemic effects, dermal | 0.7 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 4.9 mg/m³ |

DNEL/DMEL (General population)

| | |
|--|-------------------|
| Long-term - systemic effects, oral | 0.25 mg/kg bw/day |
| Long-term - systemic effects, inhalation | 0.74 mg/m³ |

| | |
|--------------------------------------|-------------------|
| Long-term - systemic effects, dermal | 0.25 mg/kg bw/day |
|--------------------------------------|-------------------|

PNEC (Water)

| | |
|------------------------|-----------|
| PNEC aqua (freshwater) | 0.84 µg/L |
|------------------------|-----------|

| | |
|--------------------------|------------|
| PNEC aqua (marine water) | 0.084 µg/L |
|--------------------------|------------|

PNEC (Sediment)

| | |
|----------------------------|----------------|
| PNEC sediment (freshwater) | 3.19 mg/kg dwt |
|----------------------------|----------------|

| | |
|------------------------------|----------------|
| PNEC sediment (marine water) | 0.32 mg/kg dwt |
|------------------------------|----------------|

PNEC (Soil)

| | |
|-----------|----------------|
| PNEC soil | 1.59 mg/kg dwt |
|-----------|----------------|

PNEC (STP)

| | |
|-----------------------------|----------|
| PNEC sewage treatment plant | 1.3 mg/l |
|-----------------------------|----------|

Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs. (71786-60-2)

DNEL/DMEL (Workers)

| | |
|--------------------------------------|-------------------|
| Long-term - systemic effects, dermal | 0.17 mg/kg bw/day |
|--------------------------------------|-------------------|

| | |
|--|------------|
| Long-term - systemic effects, inhalation | 0.59 mg/m³ |
|--|------------|

DNEL/DMEL (General population)

| | |
|------------------------------------|-------------------|
| Long-term - systemic effects, oral | 0.06 mg/kg bw/day |
|------------------------------------|-------------------|

| | |
|--|------------|
| Long-term - systemic effects, inhalation | 0.09 mg/m³ |
|--|------------|

| | |
|--------------------------------------|-------------------|
| Long-term - systemic effects, dermal | 0.06 mg/kg bw/day |
|--------------------------------------|-------------------|

PNEC (Water)

| | |
|------------------------|------------|
| PNEC aqua (freshwater) | 0.183 µg/L |
|------------------------|------------|

| | |
|--------------------------|------------|
| PNEC aqua (marine water) | 0.018 µg/L |
|--------------------------|------------|

PNEC (Sediment)

| | |
|----------------------------|----------------|
| PNEC sediment (freshwater) | 1692 mg/kg dwt |
|----------------------------|----------------|

| | |
|------------------------------|-----------------|
| PNEC sediment (marine water) | 0.169 mg/kg dwt |
|------------------------------|-----------------|

PNEC (Soil)

| | |
|-----------|-------------|
| PNEC soil | 5 mg/kg dwt |
|-----------|-------------|

PNEC (Oral)

| | |
|---------------------------------|--------------|
| PNEC oral (secondary poisoning) | 2 mg/kg food |
|---------------------------------|--------------|

PNEC (STP)

| | |
|-----------------------------|-----------|
| PNEC sewage treatment plant | 2200 µg/L |
|-----------------------------|-----------|

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

DNEL/DMEL (Workers)

| | |
|--------------------------------------|--------------------------|
| Long-term - systemic effects, dermal | 0.3 mg/kg bodyweight/day |
|--------------------------------------|--------------------------|

| | |
|--|-------------|
| Long-term - systemic effects, inhalation | 2.112 mg/m³ |
|--|-------------|

DNEL/DMEL (General population)

| | |
|------------------------------------|----------------------------|
| Long-term - systemic effects, oral | 0.214 mg/kg bodyweight/day |
|------------------------------------|----------------------------|

| | |
|--|-------------|
| Long-term - systemic effects, inhalation | 0.745 mg/m³ |
|--|-------------|

| | |
|--------------------------------------|----------------------------|
| Long-term - systemic effects, dermal | 0.214 mg/kg bodyweight/day |
|--------------------------------------|----------------------------|

PNEC (Water)

| | |
|------------------------|------------|
| PNEC aqua (freshwater) | 0.214 µg/L |
|------------------------|------------|

| | |
|--------------------------|------------|
| PNEC aqua (marine water) | 0.021 µg/L |
|--------------------------|------------|

| | |
|--------------------------------------|-----------------|
| PNEC aqua (intermittent, freshwater) | 0.87 µg/L |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 1.692 mg/kg dwt |
| PNEC sediment (marine water) | 0.169 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 5 mg/kg dwt |
| PNEC (Oral) | |
| PNEC oral (secondary poisoning) | 2 mg/kg food |
| PNEC (STP) | |
| PNEC sewage treatment plant | 1500 µg/L |

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2.2. Personal protection equipment

Personal protective equipment:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses with side shields. EN 166.

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Long sleeved protective clothing. EN 14605. EN ISO 13982

Hand protection:

Protective gloves. DIN ISO 374. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or mechanical strain, which deviate from the test conditions, can reduce the protective effect provided by the recommended glove

| Material | Permeation | Thickness (mm) | Comments |
|--|-------------------|----------------|--|
| Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,4 | Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. |
| In case of splash contact: Nitrile rubber (NBR) | 6 (> 480 minutes) | 0,4 | Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. |

Other skin protection

Materials for protective clothing:

Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment

8.2.2.3. Respiratory protection

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn

8.2.2.4. Thermal hazards

Thermal hazard protection:

Wear appropriate thermal protective clothing, when necessary.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases.

Other information:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---------------------------------|-----------------------------------|
| Physical state | : Liquid |
| Colour | : Brown. |
| Appearance | : Liquid. |
| Odour | : Characteristic. |
| Odour threshold | : Not available |
| Melting point | : Not available |
| Freezing point | : Not available |
| Boiling point | : Not available |
| Flammability | : Not available |
| Explosive limits | : Not available |
| Lower explosive limit (LEL) | : Not available |
| Upper explosive limit (UEL) | : Not available |
| Flash point | : 220 °C |
| Auto-ignition temperature | : Not available |
| Decomposition temperature | : Not available |
| pH | : Not applicable |
| Viscosity, kinematic | : 34.7 mm ² /s @ 40 °C |
| Solubility | : Not available |
| Log Kow | : Not available |
| Vapour pressure | : Not available |
| Vapour pressure at 50°C | : Not available |
| Density | : 0.84 g/cm ³ @ 15 °C |
| Relative density | : Not available |
| Relative vapour density at 20°C | : Not available |
| Particle size | : Not applicable |
| Particle size distribution | : Not applicable |
| Particle shape | : Not applicable |
| Particle aspect ratio | : Not applicable |
| Particle aggregation state | : Not applicable |
| Particle agglomeration state | : Not applicable |
| Particle specific surface area | : Not applicable |
| Particle dustiness | : Not applicable |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : Not applicable

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.

10.4. Conditions to avoid

Avoid high temperatures. Direct sunlight.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Oxidising agents.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | |
|-----------------------------|--|
| Acute toxicity (oral) | : Based on available data, the classification criteria are not met |
| Acute toxicity (dermal) | : Based on available data, the classification criteria are not met |
| Acute toxicity (inhalation) | : Based on available data, the classification criteria are not met |

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine (218141-16-3)

| | |
|---------------|-------------------------|
| LD50 oral rat | < 2000 mg/kg bodyweight |
|---------------|-------------------------|

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Based on available data, the classification criteria are not met pH: Not applicable |
| Serious eye damage/irritation | : Based on available data, the classification criteria are not met pH: Not applicable |
| Respiratory or skin sensitisation | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : Based on available data, the classification criteria are not met |
| Carcinogenicity | : Based on available data, the classification criteria are not metAll hydrocarbons in this mixture: Note L is applicable (DMSO <3%), therefore no classification as carcinogen |
| Reproductive toxicity | : Based on available data, the classification criteria are not met |
| STOT-single exposure | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure | : Based on available data, the classification criteria are not met |
| Aspiration hazard | : Based on available data, the classification criteria are not met |

Transmission Fluid F-GT

| | |
|----------------------|--------------------|
| Viscosity, kinematic | 34.7 mm²/s @ 40 °C |
|----------------------|--------------------|

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

| | |
|--|--|
| Adverse health effects caused by endocrine disrupting properties | : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % |
|--|--|

11.2.2. Other information

| | |
|---|--|
| Potential adverse human health effects and symptoms | : Exposure may produce an allergic reaction,Information on Effects: refer to section 4 |
|---|--|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|--|
| Hazardous to the aquatic environment, short-term (acute) | : Based on available data, the classification criteria are not met |
| Hazardous to the aquatic environment, long-term (chronic) | : Harmful to aquatic life with long lasting effects. |

3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine (218141-16-3)

| | |
|----------------------|------------|
| EC50 72h - Algae [1] | 0.868 mg/l |
|----------------------|------------|

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|----------------------|------------|
| LC50 - Fish [1] | 0.1 mg/l |
| EC50 - Crustacea [1] | 0.043 ml/l |

12.2. Persistence and degradability

Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs. (71786-60-2)

| | |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable. (OECD 301B method). |
| Biodegradation | > 60 % (28 d, OECD 301B) |

2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol (1218787-32-6)

| | |
|-------------------------------|--|
| Persistence and degradability | Readily biodegradable. (OECD 301D method). |
| Biodegradation | 63 % (28 d, OECD 301D) |

12.3. Bioaccumulative potential

Dec-1-ene, homopolymer, hydrogenated (68037-01-4)

| | |
|---------|-------|
| Log Pow | > 3 |
| Log Kow | > 6.5 |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Transmission Fluid F-GT

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

Component

| | |
|--|---|
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (68411-46-1) | PBT: not yet assessed vPvB: not yet assessed |
|--|---|

12.6. Endocrine disrupting properties

| | |
|--|--|
| Adverse effects on the environment caused by endocrine disrupting properties | : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % |
|--|--|

12.7. Other adverse effects

| | |
|-----------------------|--|
| Other adverse effects | : No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product |
|-----------------------|--|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--|---|
| Regional waste regulation | : Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations. |
| Waste treatment methods | : Collect and reclaim or dispose in closed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Do not allow to enter drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal. |
| European List of Waste (LoW, EC 2000/532) | : 13 02 06* - synthetic engine, gear and lubricating oils 15 01 10* - packaging containing residues of or contaminated by dangerous substances |

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID
Not regulated for transport

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)

| Reference code | Applicable on |
|--|--|
| 3(b) | Dec-1-ene, homopolymer, hydrogenated ; Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based ; Distillates (petroleum), hydrotreated heavy paraffinic ; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine ; Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs. |
| 3(c) | Transmission Fluid F-GT ; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene ; 3-((C9-11-iso,C10-rich)alkyloxy)propan-1-amine ; Ethanol, 2,2'-iminobis-, N-C12-18-alkyl derivs. |
| Contains no substance(s) listed on the REACH Candidate List | |
| Contains no substance(s) listed on REACH Annex XIV (Authorisation List) | |
| Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals) | |
| Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants) | |
| VOC content | : Not applicable |
| Other information, restriction and prohibition regulations : | Directive 94/33/EC on the protection of young people at work, as amended. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. For details, refer to section 3 and 8. |

Directive 2012/18/EU (SEVESO III)

Seveso Additional information : Not applicable

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

None.

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 |
| STEL | Short-term Exposure Limit |
| VOC | Volatile organic compounds |
| 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 |
| 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 |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| TLM | Median Tolerance Limit |

| | |
|------|---|
| vPvB | Very Persistent and Very Bioaccumulative |
| OEL | Occupational Exposure Limit |
| RRN | REACH Registration no. |
| TWA | Time Weighted Average. The average concentration of a chemical in air over the total exposure time-usually an 8-hour workday. |

| | |
|-----------------|--|
| Data sources | : Classification according to Regulation (EC) No. 1272/2008 [CLP], as amended for UK law. |
| Training advice | : Normal use of this product shall imply use in accordance with the instructions on the packaging. |

Full text of H- and EUH-statements

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| 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 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Corr. 1C | Skin corrosion/irritation, Category 1, Sub-Category 1C |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H361d | Suspected of damaging the unborn child. |
| H361f | Suspected of damaging fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

| | | |
|-------------------|------|--------------------|
| Aquatic Chronic 3 | H412 | Calculation method |
|-------------------|------|--------------------|

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.