



SAFETY DATA SHEET

according to regulation (EC) No. 1907/2006 (REACH), Appendix II

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

1.1. Product identifier

Trade name or designation of the mixture Automatic Transmission Oil E-AW
Registration number -
Synonyms None.
SDS number 8017
Product code Ford Internal Ref.: 170491
Issue date 17-April-2014
Version number 3.1
Revision date 03-June-2014
Supersedes date 26-May-2014
Product use Public use

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

Identified uses Transmission, Axle and Power Steering Fluids
Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Company name Ford Motor Company Ltd.
Address Parts Distribution Centre
Royal Oak Way South
NN11 8NT Daventry, Northants
United Kingdom
Telephone number +44 1327 305 198
Address Ford-Werke GmbH
Edsel-Ford-Str. 2-14
50769 Köln
Germany
Telephone number +49 221 90-33333
e-mail HSE@rle.de
1.4 Emergency telephone number +44 1327 305 198 (mo. - fr. 09:00 - 16:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification N;R51/53

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 2

H411 - Toxic to aquatic life with long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



Signal word None.

Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention Not available.

Response Not available.

Storage Not available.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information None.

2.3. Other hazards The mixture contains no substance that fulfils the criteria of a PBT- or vPvB- substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified	20 - 30	64742-71-8 265-176-5	01-2119485040-48-XXXX	649-478-00-8	Note L
Classification:	DSD: -				
	CLP: Asp. Tox. 1;H304, Acute Tox. 3;H331				
Isooctyl-3-(3,5-di-tert.butyl-4-hydroxyphenyl)propionat	1 - 5	125643-61-0 406-040-9	-	607-530-00-7	
Classification:	DSD: R53				
	CLP: Aquatic Chronic 4;H413				
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1 - 2.49	68411-46-1 270-128-1	-	-	
Classification:	DSD: N;R51/53				
	CLP: Aquatic Chronic 2;H411				
Alkyl Thiophosphites	0.1 - 0.99	Trade Secret 424-820-7	-	-	M=10
Classification:	DSD: C;R34, Xn;R21, N;R50/53				
	CLP: Acute Tox. 4;H312, Aquatic Acute 1;H400, Aquatic Chronic 1;H410				

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

Note: Regulation No. 1272/2008 - Annex VI

Composition comments The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation Call a physician if symptoms develop or persist. If inhaled, remove to fresh air.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed Direct contact with eyes may cause temporary irritation.

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

SECTION 5: Firefighting measures

General fire hazards Not available.

- 5.1. Extinguishing media**
Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
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** During fire, gases hazardous to health may be formed.
- 5.3. Advice for firefighters**
Special protective equipment for firefighters Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Special fire fighting procedures Water runoff can cause environmental damage.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures**
For non-emergency personnel Keep unnecessary personnel away. Keep out of low areas. Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8.
For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.
- 6.2. Environmental precautions** Avoid release to the environment. Refer to special instructions/safety data sheets. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
- 6.3. Methods and material for containment and cleaning up**
 The product is immiscible with water and will spread on the water surface.
 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible and place into containers. 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.
- 6.4. Reference to other sections** For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling** Do not empty into drains.
- 7.2. Conditions for safe storage, including any incompatibilities** Store away from incompatible materials (see Section 10 of the SDS). Use appropriate container to avoid environmental contamination.
- 7.3. Specific end use(s)** Not available.

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters**
Occupational exposure limits No exposure limits noted for ingredient(s).
Biological limit values No biological exposure limits noted for the ingredient(s).
Recommended monitoring procedures Follow standard monitoring procedures.
Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs)

Components	Type	Route	Value	Form
Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)	Not applicable	Not applicable	9.33 mg/kg/day	food

8.2. Exposure 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.

Individual protection measures, such as personal protective equipment

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
Eye/face protection	If contact is likely, safety glasses with side shields are recommended.
Skin protection	
- Hand protection	Nitrile rubber Glove thickness 0,4 mm. Break through time \geq 480 min Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. Hand protection in case of splash contact: Nitrile rubber Glove thickness 0,4 mm. Break through time \geq 480 min Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product. The protective gloves to be used must comply with the specification of EU directive 89/686/EC and the resultant standard EN374. The above given information is based on laboratory test in line with EN374. 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.
- Other	Wear suitable protective clothing.
Respiratory protection	If ventilation is insufficient, suitable respiratory protection must be provided.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
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.
Environmental exposure controls	Environmental manager must be informed of all major releases.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Colour	Red
Odour	Characteristic.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	$> 316 \text{ }^\circ\text{C}$ ($> 600.8 \text{ }^\circ\text{F}$)
Flash point	$> 185.0 \text{ }^\circ\text{C}$ ($> 365.0 \text{ }^\circ\text{F}$) Cleveland open cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%)	0.9 % v/v
Explosive limit – upper (%)	7 % v/v
Vapour pressure	$< 0.013 \text{ kPa}$
Vapor pressure temp.	$20 \text{ }^\circ\text{C}$ ($68 \text{ }^\circ\text{F}$)
Vapour density	> 2
Relative density	$0.852 @15^\circ\text{C}$
Solubility(ies)	
Solubility (water)	Insoluble
Solubility (other)	Not available.

Partition coefficient (n-octanol/water)	>3.5
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	34 mm ² /s
Viscosity temperature	40 °C (104 °F)
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	
VOC (EU)	< 1 %
VOC (CH)	< 3 %

SECTION 10: Stability and reactivity

10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Excessive heat.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	No adverse effects due to inhalation are expected.
Skin contact	Not available.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms Direct contact with eyes may cause temporary irritation.

11.1. Information on toxicological effects

Product	Species	Test results
Automatic Transmission Oil E-AW (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000
Components		
Species		
Test results		
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (CAS 68411-46-1)		
Acute		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg
Skin corrosion/irritation	No data available. Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitisation	No information available.	
Skin sensitisation	This product is not expected to cause skin sensitisation. No information available.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not available.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	No data available for this product.
Mixture versus substance information	No information available.
Other information	Not available.

SECTION 12: Ecological information

12.1. Toxicity	Toxic to aquatic life with long lasting effects. Avoid discharge into drains, water courses or onto the ground.
12.2. Persistence and degradability	No data is available on the degradability of this product.
12.3. Bioaccumulative potential	No data available.
Partition coefficient n-octanol /water (log Kow)	>3.5
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	The mixture contains no substance that fulfils the criteria of a PBT- or vPvB- substance.
12.6. 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 component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Residual waste	Dispose of in accordance with local regulations. 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). Avoid discharge into water courses or onto the ground.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. 13 02 05 15 01 10
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

General ADR	IMDG Regulated Marine Pollutant.
14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Alkyl Thiophosphites; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Hazard No. (ADR)	90
Tunnel restriction code	E
14.4. Packing group	III
14.5. Environmental hazards	Yes
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Classification code	M6
14.7. Special provisions	274, 335, 601

IATA

14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Alkyl Thiophosphites; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene)
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
14.4. Packing group	III
Packaging instructions	964
14.5. Environmental hazards	Yes
ERG Code	9L
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
14.7. Special provisions	Not available.

IMDG

14.1. UN number	UN3082
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Alkyl Thiophosphites; Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene), Marine pollutant
14.3. Transport hazard class(es)	
Class	9
Subsidiary risk	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
14.7. Special provisions	274,335

SECTION 15: Regulatory information

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

EU regulations

- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I**
Not listed.
- Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II**
Not listed.
- Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**
Not listed.
- Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**
Not listed.
- Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**
Not listed.
- Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA**
Not listed.

Authorisations

- Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**
Not listed.

Restrictions on use

- Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**
Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)

Directive 94/33/EC on the protection of young people at work

Paraffin oils (petroleum), catalytic dewaxed light; Baseoil - unspecified (CAS 64742-71-8)

Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations

Follow national regulation for work with chemical agents.

VOC (EU): < 1 %

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

Not available.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

R21 Harmful in contact with skin.
R34 Causes burns.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.

Revision information

Physical & Chemical Properties: Multiple Properties

Training information

Follow training instructions when handling this material.

Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available.

Attachment to the Safety Data Sheet



Product Name: Automatic Transmission Oil E-AW
Ford Int. Ref. No.: 170491

Page: 1/1
Print Date: 03.06.2014

Involved Products:

	Finiscode	Part number	Container Size:
1.	1 767 616	4U7J M2C924 BA	1 l