A/C COMPRESSOR OIL DE



according to Regulation (EU) 2015/830



ISSUE DATE: 30.10.2013 REVISION DATE: 13.07.2017 SUPERSEDES DATE: 10.11.2014

VERSION: 5.0

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

1.1. Product identifier

Trade name A/C Compressor Oil DE **Product code** Ford Internal Ref.: 174253

SDS Number 7627

Product use Professional use

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

Relevant identified uses Compressor oil for air conditioning systems
Uses advised against No additional information available.

1.3. Details of the supplier of the safety data sheet

Supplier Distributor

Ford-Werke GmbH Ford Motor Company Ltd.
Edsel-Ford-Str. 2-14 Parts Distribution Centre
50769 Cologne Royal Oak Way South

Germany NN11 8NT Daventry, Northants

+49 221 90-33333 United Kingdom sdseu@ford.com +44 1327 305 198

1.4. Emergency telephone number

+49 (0) 6132-84463 (GBK GmbH - 24/7)

2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.

Environmental Hazardous to the aquatic environment — H400 Very toxic to aquatic life.

hazards Acute Hazard, Category 1

Hazardous to the aquatic environment — H411 Toxic to aquatic life with long lasting effects.

Chronic Hazard, Category 2

2.2. Label elements

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

Hazard pictograms



Signal word Warning

Contains Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-.omega.-methoxy-;

tris(nonylphenyl) phosphite

Hazard statements

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response

P302+P352 IF ON SKIN: Wash with plenty of water.

P391 Collect spillage.

Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction

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.

3. 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	Notes
Poly[oxy(methyl-1,2- ethanediyl)], .alpha methylomegamethoxy-	24991-61-5	50 - < 100	Skin Sens. 1, H317	
Tetradecyloxirane	7320-37-8 230-786-2	1 - < 10	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410	
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4	0.1 - < 3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Tris(methylphenyl) phosphate	1330-78-5 215-548-8	0.1 - < 1	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
tris(nonylphenyl) phosphite	26523-78-4 247-759-6 015-202-00-4	0.1 - < 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

Inhalation Remove person to fresh air and keep comfortable for breathing. Call a physician

if symptoms develop or persist.

Skin contact Wash skin with plenty of water. Take off contaminated clothing. If skin irritation

or rash occurs: Get medical advice/attention.

Eyes contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact May cause an allergic skin reaction.

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

Treat symptomatically.

5. **SECTION 5: Firefighting measures**

5.1. **Extinguishing media**

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

Do not use water jet as an extinguisher, as this will spread the fire. Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture

Fire hazard No unusual fire or explosion hazards noted.

Hazardous combustion products During fire, gases hazardous to health may be formed. Carbon oxides (CO,

CO2). Phosphorus oxides.

5.3. Advice for firefighters

> Precautionary measures fire Move containers from fire area if it can be done without personal risk.

Firefighting instructions Use standard firefighting procedures and consider the hazards of other involved

materials.

Do not attempt to take action without suitable protective equipment. Self-Protection during firefighting

contained breathing apparatus. Complete protective clothing.

6. **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep unnecessary personnel away. Keep people away from and upwind of **Emergency procedures**

> spill/leak. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained.

For personal protection, see section 8 of the SDS.

For emergency responders

Protective equipment Wear recommended personal protective equipment.

Emergency procedures Keep unnecessary personnel away. For personal protection, see section 8 of the

Avoid release to the environment. Inform appropriate managerial or supervisory 6.2. **Environmental precautions**

personnel of all environmental releases. Avoid discharge into drains, water

courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled Methods for cleaning up

material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small spills: Take up liquid spill into absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-

Other information The product is immiscible with water and will spread on the water surface.

Prevent entry into waterways, sewer, basements or confined areas.

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" ".

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Avoid contact with skin and eyes.

Avoid breathing vapours, mist. Wear personal protective equipment. Avoid prolonged exposure. Avoid release to the environment. Observe good industrial

hygiene practices.

Hygiene measuresContaminated 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 original tightly closed container. Store in a dry, cool and well-ventilated

place. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s) Compressor oil for air conditioning systems.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

United Kingdom

Regulation	Substance	Туре	Value	
EH40. HSE	2,6-di-tert-butyl-p-cresol (128-37-0) 2,6-Di-tert-butyl-p-cresol	WEL TWA	10 mg/m³	

Monitoring methods

Follow standard monitoring procedures.

DNEL: Derived no effect level

No data available.

PNEC: Predicted no effect concentration

No data available.

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

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

Individual protection measures, such as personal protective equipment (PPE)

Eye protection Chemical goggles or safety glasses

Skin protection

Hand protection 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.

 Material
 Permeation
 Thickness (mm)
 Comments

 Nitrile rubber (NBR)
 6 (> 480 minutes)
 0,4 mm
 Glove recommendation: Camatril Velours® 730 (Kächele-Cama GmbH, source of supply see www.kcl.de) or comparable product.

In case of splash 6 (> 480 minutes) 0,4 mm Glove recommendation: Camatril Velours® 730 (Kächele-

contact: Nitrile rubber

(NBR)

Cama GmbH, source of supply see www.kcl.de) or

comparable product.

Other protective 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.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment **Thermal hazard protection** Wear appropriate thermal protective clothing, when necessary.

Environmental exposure controls Avoid release to the environment. Inform appropriate managerial or supervisory

personnel of all environmental releases.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Liquid. **Appearance** Colour Clear. Odour Characteristic. **Odour threshold** No data available. No data available. Relative evaporation rate (butylacetate=1) No data available. **Melting point** Not applicable. No data available. Freezing point **Boiling point** No data available.

Flash point 204 °C

No data available. Auto-ignition temperature **Decomposition temperature** No data available. Flammability (solid, gas) Not applicable. Vapour pressure No data available. Relative vapour density at 20 °C No data available. No data available. Relative density 0.9944 g/cm³ Density Water: Insoluble Solubility Log Pow No data available. Viscosity, kinematic 43.32 mm²/s @ 40 °C 9.234 mm²/s @ 100°C

 Viscosity, dynamic
 No data available.

 Explosive properties
 Not explosive.

 Oxidising properties
 Non oxidizing.

 Explosive limits
 No data available.

9.2. Other information

VOC (EU) 0 %

10. 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 Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. 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.

Potential adverse human health effects Likely routes of exposure: inhalation, skin and eye. Information on Effects: refer

and symptoms to section 4.

12. SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Tetradecyloxirane (7320-37-8)	algae	Pseudokirc hnerella subcapitat a	LC50	0,002 mg/l	72 h	(OECD 209 method)
2,6-di-tert-butyl-p-cresol (128-37-0)	crustacea	Daphnia magna	EC50	0.48 mg/l	48 hours	
	Fish	Danio rerio	LC0	> 0.5 mg/l	96 hours	
Tris(methylphenyl) phosphate (1330-78-5)	Fish	Oncorhync hus mykiss (Rainbow trout)	LC50	0.21 - 0.32 mg/l,	96 hours	
tris(nonylphenyl) phosphite (26523-78-4)	crustacea	Daphnia magna	EC50	0,42 mg/l	48 h	

12.2. Persistence and degradability

Tetradecyloxirane (7320-37-8)

Biodegradation 60 - 70 % (OECD 301B method)

12.3. Bioaccumulative potential

Tris(methylphenyl) phosphate (1330-78-5)

Log Kow 5.11

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

A/C Compressor Oil DE

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.

12.6. 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.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Disposal must be done according to official 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).

Waste treatment methods Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.

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

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.

Additional information

European List of Waste (LoW) code

The Waste code should be assigned in discussion between

the user, the producer and the waste disposal company.

Dispose in accordance with all applicable regulations.

13 02 08* other engine, gear and lubricating oils

15 01 10* packaging containing residues of or contaminated by

dangerous substances

14. SECTION 14: Transport information

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

14.1. UN number

 UN-No.
 3082

 UN-No. (IMDG)
 3082

 UN-No. (IATA)
 3082

 UN-No. (ADN)
 3082

 UN-No. (RID)
 3082

14.2. UN proper shipping name

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane; 2,6-di-tert-butyl-p-cresol)

Proper Shipping Name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane ; 2,6-di-tert-butyl-p-cresol)

Proper Shipping Name (IATA) Environmentally hazardous substance, liquid, n.o.s. (Tetradecyloxirane; 2,6-di-

tert-butyl-p-cresol)

Proper Shipping Name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane; 2,6-di-tert-butyl-p-cresol)

Proper Shipping Name (RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane ; 2,6-di-tert-butyl-p-cresol)

14.3. Transport hazard class(es)

ADR

	Transport hazard class(es) (ADR)	9
	Danger labels (ADR)	9
	IMDG	
	Transport hazard class(es) (IMDG)	9
	Danger labels (IMDG)	9
	IATA	
	Transport hazard class(es) (IATA)	9
	Hazard labels (IATA)	9
	(2 · · · · · · · · · · · · · · · · · · ·	
	ADN	
	Transport hazard class(es) (ADN)	9
	Danger labels (ADN)	9
	bunger lubels (ADIV)	
	RID	
	Transport hazard class(es) (RID)	9
	Danger labels (RID)	9
	Danger labels (IND)	9
14.4.	Packing group	
	Packing group	III
	Packing group (IMDG)	III
	Packing group (IATA)	III
	Packing group (ADN)	III
	Packing group (RID)	 III
14.5.	Environmental hazards	
	Dangerous for the environment	Yes
	Marine pollutant	Yes
	Other information	No supplementary information available.
14.6.	Special precautions for user	
14.0.	Special precautions for user	
	Overland transport	
	Classification code (ADR)	M6
	Special provisions (ADR)	274, 335, 601, 375
	Limited quantities (ADR)	51
	Packing instructions (ADR)	P001, IBC03, LP01, R001
	Hazard identification number (Kemler No.)	90
	Tunnel restriction code (ADR)	E
	rumer restriction code (ADIX)	_
	Transport by sea	
	Special provisions (IMDG)	274, 335, 969
	Limited quantities (IMDG)	5 L
	Packing instructions (IMDG)	P001, LP01
	Packing instructions (IMDG) EmS-No. (Fire)	P001, LP01 F-A
	EmS-No. (Fire)	F-A
	EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	F-A S-F
	EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Air transport	F-A S-F A
	EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Air transport PCA Excepted quantities (IATA)	F-A S-F A
	EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Air transport	F-A S-F A

PCA limited quantity max net quantity (IATA)

PCA packing instructions (IATA)

30kgG

964

PCA max net quantity (IATA) 450L CAO packing instructions (IATA) 964 CAO max net quantity (IATA) 450L

Special provisions (IATA) A97, A158, A197

ERG code (IATA) 9L

Inland waterway transport

Classification code (ADN) M6

Special provisions (ADN) 274, 335, 375, 601

Limited quantities (ADN) 5 L
Carriage permitted (ADN) T

Rail transport

Classification code (RID) M6

Special provisions (RID) 274, 335, 375, 601

Limited quantities (RID) 5L

Packing instructions (RID) P001, IBC03, LP01, R001

Hazard identification number (RID) 90

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

15. SECTION 15: Regulatory information

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

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The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

tris(nonylphenyl) phosphite 3. Liquid substances or mixtures which are regarded as dangerous in

accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No

1272/2008

A/C Compressor Oil DE - Tetradecyloxirane -

Tris(methylphenyl) phosphate - tris(nonylphenyl) phosphite

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

A/C Compressor Oil DE - Tetradecyloxirane - 2,6-di-tert-butyl-p-cresol - Tris(methylphenyl) phosphate - tris(nonylphenyl) phosphite

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC (EU) 0 %

Other information, restriction and prohibition regulations

Young people below the age of 18 years are not allowed to use the product. 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. For details, refer to

section 3 and 8.

Seveso Information
National regulations

E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

16. SECTION 16: Other information

Indication of changes

Section 1 - Section 16.

Abbreviations and acronyms

Abbieviatione and acronymo	
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.
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.
PBT	Persistent Bioaccumulative Toxic.
PNEC	Predicted No-Effect Concentration.
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail.
SDS	Safety Data Sheet.
STP	Sewage treatment plant.
TLM	Median Tolerance Limit.
vPvB	Very Persistent and Very Bioaccumulative.
SDS	Safety Data Sheet.
OEL	Occupational Exposure Limit.
RRN	REACH Registration no
CAO	Cargo Aircraft Only.
PCA	Passenger and Cargo Aircraft.
Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and

OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006...

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

Tull toxt of IT und Lott	Cutomonio
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 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2.
Repr. 2	Reproductive toxicity, Category 2.
Skin Irrit. 2	Skin corrosion/irritation, Category 2.
Skin Sens. 1	Skin sensitisation, Category 1.
H315	Causes skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

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.

EUH205 Contains epoxy constituents. May produce an allergic reaction.

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

Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	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.

Attachment to the Safety Data Sheet



 Product Name:
 A/C Compressor Oil DE
 Page:
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 Ford Int. Ref. No.:
 174253
 Print Date: 13.07.2017

Involved Products:

Finiscode Part number Container Size:

1. 1 565 897 9U7J M1C231 AA 250 ml