ANTIFREEZE/COOLANT POAT (C)



SAFETY DATA SHEET

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

ISSUE DATE: 29.08.2023 REVISION DATE: 29.08.2023

VERSION: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Antifreeze/Coolant POAT (C)
Product code : Ford Internal Ref.: 510914

SDS Number : 11440

UFI : Q8YM-9FE4-N10K-F8XC

Product use : Public 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 : Antifreeze

1.2.2. Uses advised against

Restrictions on use : None known

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)

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

Health hazards Acute toxicity (oral), Category 4 H302 Harmful if swallowed.

Specific target organ toxicity – H373 May cause damage to organs (kidneys)
Repeated exposure, Category 2 through prolonged or repeated exposure

(oral).

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

Hazard pictograms



Signal word Warning
Contains Ethanediol

Hazard statements

H302 Harmful if swallowed.

H373 May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

P260 Do not breathe fume, mist, spray, vapours.
P264 Wash face thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Response

P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.

Disposal

P501 Dispose of contents and container to an approved waste disposal plant.

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.

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 is 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	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
	RRN			
Ethanediol	107-21-1	90 – 95	Acute Tox. 4 (Oral), H302	#
	203-473-3		(ATE=500 mg/kg	
	603-027-00-1		bodyweight)	
	01-2119456816-28-XXXX		STOT RE 2, H373	
Sodium 4(or 5)-methyl-1H-benzotriazolide	64665-57-2	0.1 – 0.2	Acute Tox. 4 (Oral), H302	
	265-004-9		(ATE=500 mg/kg	
	-		bodyweight)	
	01-2119980062-42-XXXX		Skin Corr. 1B, H314	
			Repr. 2, H361d	
			Aquatic Chronic 2, H411	

Comments : #: substance with a Community workplace exposure limit

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. Call a poison center or a doctor if you feel unwell. Never give anything by

mouth to an unconscious person.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : If skin irritation or rash occurs: Get medical advice/attention. Remove affected clothing and wash all

exposed skin area with mild soap and water, followed by warm water rinse.

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. Consult an

ophtalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. 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 inhalation : May cause drowsiness or dizziness. Cough.

Symptoms/effects after skin contact : Dry skin.
Symptoms/effects after eye contact : Redness, pain.

Symptoms/effects after ingestion : Nausea. Vomiting. Abdominal pain. Unconsciousness.

Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

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.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable. Intense heat may cause container to burst.

Hazardous decomposition products in case of fire : Toxic fumes may be released. During fire, gases hazardous to health may be formed. Carbon

oxides (CO, CO2).

5.3. Advice for firefighters

Firefighting instructions : Cool containers exposed to heat with water spray and remove container, if no risk is involved. Keep

unnecessary personnel away.

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

General measures : Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Prevent from

entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.1.1. For non-emergency personnel

Protective equipment : Avoid breathing dust, mist or spray. Wear appropriate protective equipment and clothing during

clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation, especially in confined areas. For further

information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate spillage area. Do not breathe 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".

6.2. Environmental precautions

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Large Spills: Stop leak without risks if possible. Dike the spilled material, where this is possible.

Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Clean preferably with a detergent - Avoid the use of solvents. Small spills: Wipe up with absorbent material (for example cloth). Clean surface thoroughly to remove residual contamination. Never return spills in original

containers for re-use. Notify authorities if product enters sewers or public waters.

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 : Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe

aerosol, fume, mist, spray, vapours.

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Provide local exhaust or general room ventilation.

Storage conditions : Store in a well-ventilated place. Keep cool. Do not handle or store near an open flame, heat or other

sources of ignition.

Incompatible products : Strong oxidizing agent. Strong bases.

7.3. Specific end use(s)

Antifreeze.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National occupational exposure and biological limit values

Ethanediol (107-21-1)	
-	

FII.	Indicative	Occupational	Fynosure	Limit (IOFI	١
LU:	· IIIulcalive	Occupational	LADUSUIE		_,

 Local name
 Ethylene glycol

 IOEL TWA
 52 mg/m³

 IOEL TWA [ppm]
 20 ppm

 IOEL STEL
 104 mg/m³

 IOEL STEL [ppm]
 40 ppm

 Remark
 Skin

Regulatory reference COMMISSION DIRECTIVE 2000/39/EC

United Kingdom - Occupational Exposure Limits

Local name Ethane-1,2-diol

WEL TWA (OEL TWA) [1] 10 mg/m³ particulate

52 mg/m³ vapour

WEL TWA (OEL TWA) [2] 20 ppm vapour
WEL STEL (OEL STEL) 104 mg/m³ vapour

WEL STEL 40 ppm vapour

Remark Sk (Can be absorbed through the skin. The assigned substances are those for which there are

concerns that dermal absorption will lead to systemic toxicity)

Regulatory reference EH40/2005 (Fourth edition, 2020). HSE

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

Ethanediol (107-21-1)

DNEL/DMEL (Workers)

Long-term - systemic effects, dermal 106 mg/kg bodyweight/day

Long-term - local effects, inhalation 35 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects, dermal 53 mg/kg bodyweight/day

Long-term - local effects, inhalation 7 mg/m³

PNEC (Water)

PNEC aqua (freshwater) 10 mg/l

PNEC aqua (marine water) 1 mg/l

PNEC aqua (intermittent, freshwater) 10 mg/l

PNEC (Sediment)

PNEC sediment (freshwater) 37 mg/kg dwt

PNEC sediment (marine water) 3.7 mg/kg dwt

PNEC (Soil)

PNEC soil 1.53 mg/kg dwt

PNEC (STP)

PNEC sewage treatment plant 199.5 mg/l

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)

DNEL/DMEL (Workers)

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

Long-term - systemic effects, inhalation 21.2 mg/m³

DNEL/DMEL (General population)

Long-term - systemic effects,oral 0.01 mg/kg bodyweight/day

Long-term - systemic effects, inhalation 350 µg/m³

Long-term - systemic effects, dermal 0.01 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater) $8 \mu g/L$ PNEC aqua (marine water) $8 \mu g/L$

PNEC aqua (intermittent, freshwater) 85.8 µg/L

PNEC aqua (intermittent, marine water) 53 µg/L

PNEC (Sediment)

PNEC sediment (freshwater) 0.117 mg/kg dwt
PNEC sediment (marine water) 0.117 mg/kg dwt

PNEC (Soil)

PNEC soil $45 \mu g/kg dw$

PNEC (STP)

PNEC sewage treatment plant 0.218 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. 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:

Wear suitable protective clothing.

8.2.2.1. Eye and face protection

Eye protection:

EN 166. Wear security glasses which protect from splashes

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. 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
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.
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.

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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.

Consumer exposure controls:

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 : Yellow. fluorescent.

Appearance : Liquid.
Odour : mild.
Odour threshold : Not available

Melting point : <-15 °C ASTM D1177

Freezing point : Not available

Boiling point : > 149 °C ASTM D1120
Flammability : Non flammable.

Explosive limits : Not available
Lower explosive limit (LEL) : Not available
Upper explosive limit (UEL) : Not available
Flash point : Not available

Auto-ignition temperature : Not available

Decomposition temperature : Not available

pH : 7.6 ASTM D1287

Viscosity, kinematic : Not available

Solubility : Not available

Log Kow : Not available

Vapour pressure : Not available

Vapour pressure : Not available

Vapour pressure : Not available

Density : 1.12 g/cm³ ASTM D1122

: Not available Relative density : Not available Relative vapour density at 20°C Particle size : Not applicable Particle size distribution Not applicable Particle shape : Not applicable : Not applicable Particle aspect ratio : Not applicable Particle aggregation state Particle agglomeration state Not applicable Not applicable Particle specific surface area 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 : 0 %

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

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

10.5. Incompatible materials

Heat and ignition sources. Strong oxidizing agents. Strong bases.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Harmful if swallowed.

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

Antifreeze/Coolant POAT (C)		
ATE CLP (oral)	555.56 mg/kg bodyweight	
Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)		
LD50 oral rat	735 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg bodyweight	

ATE CLP (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Based on available data, the classification criteria are not met
	pH: 7.6 ASTM D1287
Serious eye damage/irritation	: Based on available data, the classification criteria are not met
	pH: 7.6 ASTM D1287
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 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	: May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Ethanediol (107-21-1)	
STOT-repeated exposure	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).
Aspiration hazard	: Based on available data, the classification criteria are not met

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects

in the environment.

 $\label{thm:continuous} \mbox{Hazardous to the aquatic environment, short-term}$

(acute)

: Based on available data, the classification criteria are not met

Hazardous to the aquatic environment, long-term

(chronic)

: Based on available data, the classification criteria are not met

Sodium 4(or 5)-methyl-1H-benzotriazolide (64665-57-2)

EC50 - Crustacea [1] 8.58 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Ethanediol (107-21-1)

Log Pow -1.36

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Antifreeze/Coolant POAT (C)

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. Endocrine disrupting properties

No additional information available

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 legislation (waste) : 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

egulations.

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 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 for recycling, recovery or waste in accordance with

local regulation.

Additional information : Flammable vapours may accumulate in the container.

European List of Waste (LoW) code : The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

15 01 10* - packaging containing residues of or contaminated by dangerous substances

16 01 14* - antifreeze fluids containing 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) Antifreeze/Coolant POAT (C); Ethanediol

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 : 0 %

Other information, restriction and prohibition regulations: Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently

given birth or are breastfeeding as amended. 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. 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

ATE Acute Toxicity Estimate
BCF Bioconcentration factor
BLV Biological limit value

BOD Biochemical oxygen demand (BOD)
COD Chemical oxygen demand (COD)
DMEL Derived Minimal Effect level
DNEL Derived-No Effect Level
EC-No. European Community number
EC50 Median effective concentration

EN European Standard

 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

OEL Occupational Exposure Limit
PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SDS Safety Data Sheet
STP Sewage treatment plant

ThOD Theoretical oxygen demand (ThOD)

TLM Median Tolerance Limit

VOC Volatile Organic Compounds

CAS-No. Chemical Abstract Service number

N.O.S. Not Otherwise Specified

vPvB Very Persistent and Very Bioaccumulative

ED Endocrine disrupting properties

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT 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.

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

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Repr. 2 Reproductive toxicity, Category 2

Skin Corr. 1B Skin corrosion/irritation, Category 1, Sub-Category 1B STOT RE 2 Specific target organ toxicity – Repeated exposure, Category 2

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

Acute Tox. 4 (Oral) H302 Calculation method STOT RE 2 H373 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: Antifreeze/Coolant POAT (C)

Ford Int. Ref. No.: 510914 Revision Date: 29.08.2023

Involved Products:

Finiscode	Part number	Container Size:
1 2 733 434	PU7J M97B57 AA	11
2 2 733 438	PU7J M97B57 BA	51
3 2 733 442	PU7J M97B57 CA	60 I
4 2 733 446	PU7J M97B57 DA	200 I