ANTIFREEZE/COOLANT SUPER PLUS PREMIUM READY MIX



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 04.11.2016 REVISION DATE: 20.11.2019 SUPERSEDES DATE: 07.11.2016 VERSION: 3.1

1.	SECTION 1: Ident	ification of the subs	tance/mixt	ture and of th	e company/undertaking			
1.1.	Product identifier							
	Trade name	ŀ	Antifreeze/Coolant Super Plus Premium Ready Mix					
	Product code	F	Ford Internal F	Ref.: 166427				
	SDS Number	7	7528					
	Product use	F	Public use					
1.2.	Relevant identified	Relevant identified uses of the substance or mixture and uses advised against						
	Relevant identified us	ses						
	Use of the substance	/mixture /	Antifreeze					
	Uses advised against	t ۱	No additional i	nformation availa	ble.			
1.3.	Details of the supp	lier of the safety data	sheet					
	Supplier		Distributor					
	Ford-Werke GmbH	F	Ford Motor Co	mpany Ltd.				
	Edsel-Ford-Str. 2-14	F	Parts Distribution Centre					
	50769 Cologne		Royal Oak Wa	•				
	Germany		NN11 8NT Daventry, Northants					
	+49 221 90-33333		United Kingdom					
	sdseu@ford.com	4	44 1327 305	198				
1.4.	Emergency telephone number							
	+49 (0) 6132-84463 (G	BK GmbH – 24/7)						
2.	SECTION 2: Haza	rds identification						
2.1.	Classification of the substance or mixture							
	Classification according to Regulation (EC) No. 1272/2008							
	Health hazards	Specific target organ t Repeated exposure, 0		H373	May cause damage to organs (kidneys) through prolonged or repeated exposure.			
2.2.	Label elements							
	Labelling according to Regulation (EC) No. 1272/2008							
	Hazard pictograms	•						

Signal word Contains Hazard statements H373

Precautionary statements

Warning Ethanediol

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

Product code: Ford Internal Ref.: 166427

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 vapours.
Response	
P314	Get medical advice/attention if you feel unwell
Disposal	
P501	Dispose of contents and container to an approved waste disposal plant.
•	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.

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
Ethanediol	107-21-1 203-473-3 603-027-00-1 01-2119456816-28- XXXX	40 - 60	Acute Tox. 4 (Oral), H302 STOT RE 2, H373	#
Sodium 2-ethylhexanoate	19766-89-3 243-283-8	1 - < 3	Repr. 2, H361d	

#: substance with a Community workplace exposure limit

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical advice/attention if you feel unwell.
Inhalation	Remove person to fresh air and keep comfortable for breathing.
Skin contact:	Wash skin with plenty of water.
Eyes contact	Rinse eyes with water as a precaution.
Ingestion	Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects:	Vomiting. Convulsions. Abdominal pain. Prolonged exposure may cause chronic effects.
Symptoms/effects after inhalation	Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation. May cause shortness of breath, tightness of the chest, a sore throat and cough.
Symptoms/effects after skin contact	Contact during a long period may cause light irritation. Defatting, drying and cracking of skin.
Symptoms/effects after eye contact	Exposure may cause temporary irritation, redness, or discomfort.
Symptoms/effects after ingestion	Convulsions. Abdominal pain. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). Ingestion of this product may lead to chemical pneumonia and even death.

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.	
	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		
	Hazardous combustion products	Toxic fumes may be released.	
5.3.	Advice for firefighters		
	Precautionary measures fire	Cool containers exposed to heat with water spray and remove container, if no risk is involved.	
	Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self- contained breathing apparatus. Complete protective clothing.	
	Other information	Use standard firefighting procedures and consider the hazards of other involved materials.	

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel Emergency procedures Emergency procedures Ventilate spillage area. Do not breathe dust, fume, vapours. For emergency responders 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 Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

	Methods for cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled 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-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 13. For further information refer to section 8: "Exposure controls/personal protection".

7. 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 dust, fume, vapours, spray.

 Hygiene measures
 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	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store in a well-ventilated place. Keep container tightly
	closed. Keep cool.

7.3. Specific end use(s)

Antifreeze.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<u>EU</u>

	Substance		Туре	Value	
COMMISSION	Ethanediol (107-21-1)		IOELV TWA	52 mg/m ³	
DIRECTIVE Ethylene glycol 2000/39/EC		IOELV TWA		20 ppm	
2000/35/20			IOELV STEL	104 mg/m³	
			IOELV STEL	40 ppm	
		l	Notes	Skin	
United Kingdom					
Regulation	Substance		Туре	Value	
EH40/2005 (Third edition, 2018). HSE	Ethanediol (107-21-1) Ethane-1,2-diol		WEL TWA	10 mg/m³ particulate 52 mg/m³ vapour	
			WEL TWA	20 ppm vapour	
			WEL STEL	104 mg/m³ vapour	
			WEL STEL	40 ppm vapour	
		Remark (WEL)		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)	
DNEL: Derived no effe	ci level				
No data available	T	Davita	Malua	F	
Components	Туре	Route	Value	Form	
Ethanediol (107-21-1)	Worker	Dermal Inhalation	106 mg/kg bodyweight/day 35 mg/m³	Long-term - systemic effect Long-term - local effects	
	Consumer	Dermal	53 mg/kg bodyweight/day	Long-term - systemic effect	
	oonounor	Inhalation	7 mg/m ³	Long-term - local effects	
PNEC: Predicted no ef	fect concentration	Innalation	7 119/11	Long torm lood chooto	
No data available					
Components	Туре	Route	Value	Form	
Ethanediol (107-21-1)	Not applicable	Freshwater	10 mg/l		
Ethanediol (107-21-1)	Not applicable	Freshwater Seawater	10 mg/l 1 mg/l		
Ethanediol (107-21-1)	Not applicable		-	Freshwater	
Ethanediol (107-21-1)	Not applicable	Seawater	1 mg/l	Freshwater Seawater	
Ethanediol (107-21-1)	Not applicable	Seawater sediment	1 mg/l 37 mg/kg dwt 3.7 mg/kg dwt		
Ethanediol (107-21-1)	Not applicable	Seawater sediment sediment Soil	1 mg/l 37 mg/kg dwt 3.7 mg/kg dwt 1.53 mg/kg dwt		
	Not applicable	Seawater sediment sediment	1 mg/l 37 mg/kg dwt 3.7 mg/kg dwt		
Exposure controls		Seawater sediment sediment Soil STP	1 mg/l 37 mg/kg dwt 3.7 mg/kg dwt 1.53 mg/kg dwt 199.5 mg/l	Seawater	
Ethanediol (107-21-1) Exposure controls Appropriate engineerin Materials for protective	ng controls	Seawater sediment sediment Soil STP Good genera Ventilation ra enclosures, la airborne leve been establis Personal pro	1 mg/l 37 mg/kg dwt 3.7 mg/kg dwt 1.53 mg/kg dwt 199.5 mg/l I ventilation (typically 10 air c ites should be matched to cor ocal exhaust ventilation, or ot is below recommended exposi- shed, maintain airborne levels	Seawater hanges per hour) should be used. nditions. If applicable, use process her engineering controls to maintain sure limits. If exposure limits have not s to an acceptable level chosen according to the CEN standard	
Exposure controls Appropriate engineerii	ng controls e clothing	Seawater sediment sediment Soil STP Good genera Ventilation ra enclosures, la airborne leve been establis Personal pro and in discus	1 mg/l 37 mg/kg dwt 3.7 mg/kg dwt 1.53 mg/kg dwt 199.5 mg/l I ventilation (typically 10 air c its should be matched to cor ocal exhaust ventilation, or ot is below recommended exposi- shed, maintain airborne levels tective equipment should be of sion with the supplier of the p	Seawater hanges per hour) should be used. nditions. If applicable, use process her engineering controls to maintain sure limits. If exposure limits have not to an acceptable level chosen according to the CEN standard	

8.2.

Skin protection				
Hand protection		Protective gloves.		
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 protective measures		No additional information available.		
Respiratory protection		In case of insufficient ventilation, wear suitable respiratory equipment. Type A - High-boiling (>65 °C) organic compounds		
Skin and body protection		Wear suitable protective clothing		
Thermal hazard protection		Wear appropriate thermal protective clothing, when necessary.		
Environmental exposure controls		Avoid release to the environment.		

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear.
Colour	Fluorescent. orange.
Odour	slight.
Odour threshold	No data available
рН	8.5 @20°C
Relative evaporation rate (butylacetate=1)	No data available
Melting point	Not applicable
Freezing point	No data available
Boiling point	109 °C
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not applicable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Density	1.0621 kg/l
Solubility	Miscible with water.
Log Pow	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	Not explosive.
Oxidising properties	Non oxidizing.
Explosive limits	No data available
Other information	

9.2. Other information

<1%

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.

VOC (EU)

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	Strong acids. Nitrites. Peroxides. Strong oxidizing agent. Chlorates.
10.6.	Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced. At high temperatures : Ketones. Aldehydes.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity			Based on available data, the classification criteria are not met.				
Mixture							
Name	Method	Туре	Exposure route	Value	Unit	Species	Remarks
Antifreeze/Coolant Super Plus Premium Ready Mix	(calculated value)	ATE	oral	3606	mg/kg		
Substance							
Name	Method	Туре	Exposure route	Value	Unit	Species	Remarks
Ethanediol (107-21-1)		LD50	oral	1600	mg/kg	Cat	
Skin corrosion/irritati	on		Based on available	data, the o	classificatio	n criteria are n	ot met.
Serious eye damage/i	irritation		Based on available	data, the o	classificatio	n criteria are n	ot met.
Respiratory or skin se	ensitisation		Based on available	data, the o	classificatio	n criteria are n	ot met.
Germ cell mutagenici	ty		Based on available	data, the o	classificatio	n criteria are n	ot met
Carcinogenicity			Based on available	data, the o	classificatio	n criteria are n	ot met
Reproductive toxicity			Based on available	data, the o	classificatio	n criteria are n	ot met
STOT-single exposure	e		Based on available	data, the o	classificatio	n criteria are n	ot met
STOT-repeated expos	sure		May cause damage exposure.	to organs	(kidneys) t	hrough prolon	ged or repeated
Aspiration hazard			Based on available	data, the o	classificatio	n criteria are n	ot met

12. SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and degradability

12.2.	Antifreeze/Coolant Super Plus Premium Ready Mix				
	Persistence and degradability	Readily biodegradable.			
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 assessmen	ıt			

Antifreeze/Coolant Super Plus Premium Ready Mix

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

Antifreeze/Coolant Super Plus Premium Ready Mix

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

12.6. Other adverse effects

No additional information available.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)	Dispose of in accordance with local regulations.			
Waste treatment methods	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). Collect and reclaim or dispose in closed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.			
Sewage disposal recommendations	Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.			
Product/Packaging disposal recommendations	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.			
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			

14. SECTION 14: Transport information

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

15. SECTION 15: Regulatory information

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

EU-Regulations

Ethanediol	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		
Antifreeze/Coolant Super Plus Premium Ready Mix - Sodium 2-ethylhexanoate - Ethanediol	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		
Contains no substance on the REACH can	didate list		
Contains no REACH Annex XIV substance	S		
VOC (EU)	< 1 %		
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 is applicable. 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.		
	Not applicable.		

National regulations

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 1	6.
Abbreviations and a	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
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
GW/VL	Occupational exposure limit value.

GW-kw/VL-cd	Occupational exposure limit value - short term.
GW-M/VL-M	Occupational exposure limit value – "Ceiling".
IATA	International Air Transport Association
IBC code	International Bulk Chemical (Code) (International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk).
ICAO	International Civil Aviation Organization
IC50	Inhibition Concentration 50%.
IECSC	Inventory of Existing Chemical Substances in China.
IMDG	International Maritime Dangerous Goods
ISO	International Standards Organization.
IUPAC	International Union of Pure and Applied Chemistry
LC50	Lethal Concentration 50%.
LCLo	Lowest published lethal concentration.
LD50	Lethal Dose 50%.
LOAEL	Lowest Observed Adverse Effect Level
LOEC	Lowest observable effect concentration.
LOEL	Lowest observable effect level.
LQ	Limited quantities
TRK-Kzw	Threshold limit value - Short-term exposure limit / Technical reference concentration - short-time value, Austria.
MAK-Mow	Maximum allowable workplace concentration - instantaneous value, Austria.
MAK-Tmw, TRK-Tmw	Maximum allowable workplace concentration – daily mean value / Technical standard concentration – daily mean value, Austria.
MAK	Threshold limit values Germany.
MARPOL	International Convention for the Prevention of Pollution from Ships.
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
NOEL	no-observed-effect level
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limits
PBT	Persistent Bioaccumulative Toxic
PC (Chemical product category)	PC (Chemical product category)
PNEC	Predicted No-Effect Concentration
POCP	Photochemical ozone creation potential.
POP	Persistent Organic Pollutants
PPE	Personal protective equipment
Process category	Process category
REACH	Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 concerning Registration, Evaluation Authorization and Restriction of Chemicals).
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SCL	Specific concentration limit.
STEL	Short-term Exposure Limit
STP	Sewage treatment plant
SU (Sector of use)	SU (Sector of use)
SVHC	Substance of Very High Concern.

TLV	Threshold Limit	t Value		
TRGS	Technical Rule	s for Hazardous Substances (German Standard).		
TWA	Time Weighted	I Average		
UVCB	Substances of materials	Unknown or Variable composition, Complex reaction products or Biological		
VbF	Ordinance on F	Flammable Liquids, Austria		
VOC	Volatile organic	c compounds		
vPvB	Very Persistent	t and Very Bioaccumulative		
WEL-TWA	Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).			
WEL-STEL	Workplace Exp	oosure Limit-Short term exposure limit (15-minute reference period).		
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		
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.		
Repr. 2	Reproductive to	oxicity, Category 2.		
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2.			
H302	Harmful if swallowed.			
H361d	Suspected of damaging the unborn child.			
H373 May cause da		nage to organs through prolonged or repeated exposure.		
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]				
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 Super Plus Premium Ready Mix

Ford Int. Ref. No.:

REVISION DATE: 20.11.2019

Involved Products:

	Finiscode	
1	2 107 121	

Part number 2U2J 19544 EB2C

166427

Container Size: