ANTIFREEZE/COOLANT SUPER PLUS PREMIUM



SAFETY DATA SHEET

according to Regulation (EU) 2015/830

ISSUE DATE: 03.12.2014 REVISION DATE: 05.11.2019 SUPERSEDES DATE: 06.02.2019 VERSION: 2.2

1. S	SECTION 1: Identification of	of the substance/mixture and	of the company/undertaking
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1.1.	Product identifier			
	Trade name	Antifreeze/Coolant Super Plus Premium		
	Product code	Ford Internal Ref.: 194810		
	SDS Number	5532		
	Product use	Public use		

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

Relevant identified uses	Anti-Freeze and De-icing products
Uses advised against	None known

1.3. Details of the supplier of the safety data sheet

d.
e
orthants

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	Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
	Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

2.2. Label elements

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

Hazard pictograms



Signal word Contains Hazard statements H302 H373

Harmful if swallowed. May cause damage to organs (kidneys) through prolonged or repeated exposure (oral).

Precautionary statements

Ethanediol

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, mist.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
Response	
P314	Get medical advice/attention if you feel unwell
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.

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	80 - < 98	Acute Tox. 4 (Oral), H302 STOT RE 2, H373	#
Sodium 2-ethylhexanoate	19766-89-3 243-283-8	0,1 - < 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

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
Skin contact:	Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eyes 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. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do not induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/effects after inhalation	In high concentrations : May cause respiratory irritation.
Symptoms/effects after skin contact	Repeated or prolonged skin contact may cause irritation. Dry skin.
Symptoms/effects after eye contact	Exposure may cause temporary irritation, redness, or discomfort.
Symptoms/effects after ingestion	May be harmful if swallowed. Repeated contact. May affect kidneys. Overexposure may result in : Convulsions. Dizziness. Nausea. Vomiting. Abdominal pain. Swelling. Prolonged exposure may cause chronic effects.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Product code: Ford Internal Ref.: 194810 GB - en Revision date: 11/5/2019 2

5. SECTION 5: Firefighting measures

5.1.	Extinguishing media	
	Suitable extinguishing media	Alcohol resistant foam. Dry powder. Carbon dioxide.
	Unsuitable extinguishing media	Do not use a water jet since it may cause the fire to spread.
5.2.	5.2. Special hazards arising from the substance or mixture	
	Hazardous combustion products	Toxic fumes may be released. Carbon oxides (CO, CO2).
5.3.	Advice for firefighters	
	Firefighting instructions	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if it can be done without personal risk. Ensure adequate ventilation, especially in confined areas.
	Protection during firefighting	Do not attempt to take action without suitable protective equipment. Self- 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	
Protective equipment	Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.
Emergency procedures	Evacuate area. Keep people away from and upwind of spill/leak. Avoid breathing mist or vapor. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.
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".
Emergency procedures	Evacuate unnecessary personnel. Ventilate area.
Environmental precautions	Avoid release to the environment. 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

	For containment	Stop leak without risks if possible.
	Methods for cleaning up	Use water spray to reduce vapors or divert vapor cloud drift. Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. 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. Never return spills in original containers for re- use. Local authorities should be advised if significant spillages cannot be contained.
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" . For further information refer to section 13.
7.	SECTION 7: Handling and storage	
7.1.	Precautions for safe handling	
	Precautions for safe handling	Ensure good ventilation of the work station. Avoid prolonged exposure. Wear personal protective equipment.
	Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe good industrial hygiene practices.

6.2.

7.2. Conditions for safe storage, including any incompatibilities

	Storage conditions	Store in a well-ventilated place. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.
	Incompatible materials	Strong oxidizing agent.
7.3.	Specific end use(s)	Anti-Freeze and De-icing products.

8. SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EU			
Regulation	Substance	Туре	Value
COMMISSION	Ethanediol (107-21-1)	IOELV TWA	52 mg/m ³
DIRECTIVE	Ethylene glycol	IOELV TWA	20 ppm
2000/39/EC		IOELV STEL	104 mg/m ³
		IOELV STEL	40 ppm
		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)
	fr 4 1		systemic toxicity

DNEL: Derived no effect level

No data available				
Components	Туре	Route	Value	Form
Ethanediol (107-21-1)	Worker	Dermal Inhalation	106 mg/kg bodyweight/day 35 mg/m³	Long-term - systemic effects Long-term - local effects
	Consumer	Dermal Inhalation	53 mg/kg bodyweight/day 7 mg/m³	Long-term - systemic effects Long-term - local effects
PNEC: Predicted no effe	ct concentration			
Components	Туре	Route	Value	Form
Ethanediol (107-21-1)	Not applicable	Freshwater Seawater	10 mg/l 1 mg/l	
		sediment sediment Soil STP	37 mg/kg dwt 3.7 mg/kg dwt 1.53 mg/kg dwt 199.5 mg/l	Freshwater Seawater

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 protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment
Individual protection measures, such as	personal protective equipment (PPE)
Eye protection	Safety glasses with side shields. EN 166.
Skin protection	
Hand protection	EN 374. Protective gloves. The recommendation is only valid for the supplied product and the stated application. Special working conditions, like heat or

		,	ich deviate from the test conditions, can reduce the ded by the recommended glove
Material	Permeation	Thickness (mm)	Comments
Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele- Cama GmbH, source of supply see www.kcl.de) or comparable product.
In case of splash contact: Nitrile rubber (NBR)	6 (> 480 minutes)	0,4	Glove recommendation: Camatril Velours® 730 (Kächele- Cama GmbH, source of supply see www.kcl.de) or comparable product.
Other protective	measures	Normal work clothing	(long sleeved shirts and long pants) is recommended.
Respiratory protectio	n	In case of insufficient Combinationfilter A-P2	ventilation, wear suitable respiratory equipment. 2
Skin and body protec	tion	No additional informat	ion available.
Thermal hazard prote	ction	Wear appropriate the	mal protective clothing, when necessary.
Environmental expos	ure controls	Avoid release to the e personnel of all enviro	nvironment. Inform appropriate managerial or supervisory nmental releases.
Consumer exposure	controls	handling the material	personal hygiene measures, such as washing after and before eating, drinking, and/or smoking. Routinely id protective equipment to remove contaminants.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid.
Colour	orange.
Odour	mild.
Odour threshold	No data available
рН	8.6 @ 20°C
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	-18 °C (-0,4 °F)
Boiling point	>= 175 °C (>= 347 °F)
Flash point	122 °C (251,6 °F) Closed cup (Pensky-Martens)
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	1.113 kg/l @ 20°C
Solubility	Soluble in water.
Log Pow	No data available

	Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties Explosive limits	No data available No data available No data available No data available 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 acids. Peroxides. Strong oxidizing agents. Nitrates. Chlorates.
10.6.	Hazardous decomposition products	During fire, gases hazardous to health may be formed. Carbon oxides (CO, CO2). Elevated temperature. Ketones. Aldehydes.

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity			Harmful if swallowed	d.			
Mixture							
Name	Method	Туре	Exposure route	Value	Unit	Species	Remarks
Antifreeze/Coolant Super Plus Premium	(calculated value)	ATE	oral	531,9	mg/kg		
Substance							
Name	Method	Туре	Exposure route	Value	Unit	Species	Remarks
Ethanediol (107-21-1)	(acc. CLP 3.1.2)	ATE	oral	500	mg/kg		
Skin corrosion/irritatio	n		Based on available	data, the c	lassificatio	n criteria are n	ot met.
Serious eye damage/ir	ritation		Based on available	data, the c	lassificatio	n criteria are n	ot met.
Respiratory or skin se	nsitisation		Based on available	data, the c	classificatio	n criteria are n	ot met.
Germ cell mutagenicity	/		Based on available	data, the c	lassificatio	n criteria are n	ot met
Carcinogenicity			Based on available	data, the c	lassificatio	n criteria are n	ot met
Reproductive toxicity			Based on available	data, the c	lassificatio	n criteria are n	ot met
STOT-single exposure			Based on available	data, the c	lassificatio	n criteria are n	ot met
STOT-repeated exposu	ıre		May cause damage (oral).	to organs	(kidneys) I	hrough prolon	ged or repeated exposure
Aspiration hazard			Based on available	data, the c	lassificatio	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

2.2.	Persistence and degradability	
	Antifreeze/Coolant Super Plus Premium	I
	Persistence and degradability	Expected to be biodegradable.
2.3.	Bioaccumulative potential	
	Ethanediol (107-21-1)	
	Log Pow	-1.36
.4.	Mobility in soil	
	No additional information available.	
.5.	Results of PBT and vPvB assessme	ent
	Antifreeze/Coolant Super Plus Premium	I
	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.
.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.
}.	SECTION 13: Disposal considera	ations
.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 regulations.
	Waste treatment methods	Collect and reclaim or dispose in closed 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	instructions.
		instructions. 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.
	recommendations	instructions. 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. The Waste code should be assigned in discussion between
	recommendations	instructions. Since emptied containers may retain product residue, follow label warnings ever after container is emptied. Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

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

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

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 -Ethanediol - Sodium 2-ethylhexanoate 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 candidate list Contains no REACH Annex XIV substances

VOC (EU) Other information, restriction and prohibition regulations	0 % Directive 94/33/EC on the protection of young people at work, as amended. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given high a core breatfanding a company decision activity area to activity and the
Severe Information	birth or are breastfeeding as amended. For details, refer to section 3 and 8.
Seveso Information	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

1.4. Emergency telephone number. Portuguese.

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inla Waterways	nd
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Roa	d
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 classificati labeling and packaging of substances and mixtures.	эn,
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 Value		
TRGS	Technical Rules for Hazardous Substances (German Standard).		
TWA	Time Weighted Average		
UVCB	Substances of Unknown or Variable composition, Complex reaction products or Biological materials		
VbF	Ordinance on Flammable Liquids, Austria		
VOC	Volatile organic compounds		
vPvB	Very Persistent and Very Bioaccumulative		
WEL-TWA	Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted average)reference period).		
WEL-STEL	Workplace Exposure 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		
Full text of H- and EUH-statements			
Acute Tox 4 (Oral)	Acute toxicity (oral) Category 4		

Acute Tox. 4 (Oral)	Acute toxi	Acute toxicity (oral), Category 4.			
Repr. 2	Reproduct	Reproductive toxicity, Category 2.			
STOT RE 2	Specific ta	Specific target organ toxicity — Repeated exposure, Category 2.			
H302	Harmful if	Harmful if swallowed.			
H361d	Suspected	Suspected of damaging the unborn child.			
H373	May cause	May cause damage to organs through prolonged or repeated exposure.			
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/Coolar	Antifreeze/Coolant Super Plus Premium		
Ford Int. Ref. No.:	194810		REVISION DATE: 05.11.2019	
Involved Products	:			
Finiscode . 1 1 931 970	Part number FU2J 19544 CA	Container Size: 20 I		

. 1	1 931 970	FU2J 19544 CA	20
2	2 361 569	FU7J 19544 AD	11
3	2 361 571	FU7J 19544 BD	51
4	1 931 964	FU7J 19544 DA	60 I
5	1 931 966	FU7J 19544 EA	200 I