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<u>AVÍA</u>

	TION 1: Identification of the substance/mixture and of the company/undertaking		
.1	Product identifier		
		AVIA ANTIFREEZE APN	
.2	Relevant identified uses of th	e substance or mixture and uses advised against	
.2.1	Relevant uses		
		Anti-freezing agents	
.2.2	Uses advised against		
		None known.	
2	Dotails of the supplier of the	cofety data chect	
.3	Details of the supplier of the s Company	AVIA MINERALÖL AG	
		Grillparzerstrasse 8	
		81675 München / GERMANY	
		Phone +49 (0)89-455045-0 Fax +49 (0)89-455045-10	
		Homepage www.avia.de	
		E-mail datenblatt@avia.de	
	Address enquiries to		
	Technical information	datenblatt@avia.de	
	Safety Data Sheet	sdb@chemiebuero.de	
.4	Emergency telephone numbe	r	
		(40, (0)80, 10240, (24b), (angligh))	
	Advisory body	+49 (0)89-19240 (24h) (english)	
	Advisory body Company	+49 (0)89-19240 (24n) (english) +49 (0)89-455045-0	
SEC		+49 (0)89-455045-0	
	Company	+49 (0)89-455045-0	
2.1	Company TION 2: Hazards identification Classification of the substand	+49 (0)89-455045-0	
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1 1.1	Company TION 2: Hazards identification Classification of the substand Classification according to Re	+49 (0)89-455045-0 ce or mixture egulation (EC) No 1272/2008 [CLP] Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.	
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.1 .1.1 .1.2	Company TION 2: Hazards identification Classification of the substance Classification according to Re Classification according to D	+49 (0)89-455045-0 ce or mixture egulation (EC) No 1272/2008 [CLP] Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. irective 67/548/EEC or 1999/45/EC Xn, Harmful - R 22: Harmful if swallowed.	
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1 1.1	Company TION 2: Hazards identification Classification of the substance Classification according to Re Classification according to De Label elements Labelling according to Regula Hazard pictograms	+49 (0)89-455045-0 ce or mixture egulation (EC) No 1272/2008 [CLP] Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. irective 67/548/EEC or 1999/45/EC Xn, Harmful - R 22: Harmful if swallowed. The product is required to be labelled in accordance with GHS/CLP-Directives. ation (EC) 1272/2008	
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1.1 1.1 1.2	Company TION 2: Hazards identification Classification of the substance Classification according to Re Classification according to De Label elements Labelling according to Regula Hazard pictograms Signal word Contains: Hazard statements Precautionary statements Other hazards	 +49 (0)89-455045-0 ce or mixture egulation (EC) No 1272/2008 [CLP] Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. irective 67/548/EEC or 1999/45/EC Xn, Harmful - R 22: Harmful if swallowed. The product is required to be labelled in accordance with GHS/CLP-Directives. ation (EC) 1272/2008 WARNING Ethylene glycol H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. P260 Do not breathe vapours. P260 Do not breathe vapours. P501 Dispose of contents/container to in accordance with local/regional/national/international regulation. 	

SECTION 3: Composition / Information on ingredients

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Product-type: The product is a mixture. Range [%] Substance >90 Ethylene glycol CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, ECB-Nr.: 01-2119456816-28-XXXX GHS/CLP: Acute Tox. 4: H302 - STOT RE 2: H373 EEC: Xn, R 22 2 - <3 Sodium 2-ethylhexanoate CAS: 19766-89-3, EINECS/ELINCS: 243-283-8 GHS/CLP: Repr. 2: H361d EEC: Xn, R 63 0,3 - 1 disodium tetraborate pentahydrate CAS: 12179-04-3, EINECS/ELINCS: 215-540-4, EU-INDEX: 005-011-02-9 GHS/CLP: Repr. 1B: H360D EEC: T, R 60-61 Comment on component parts SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0,1% CAS 12179-04-3 - disodium tetraborate pentahydrate For full text of H-statements and R-phrases: see SECTION 16. SECTION 4: First aid measures Description of first aid measures 4.1 General information Take off contaminated clothing and wash before reuse. Inhalation Ensure supply of fresh air. In the event of symptoms seek for medical treatment. Skin contact In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy Eve contact to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Ingestion Rinse out mouth and give plenty of water to drink. Consult a doctor immediately. Most important symptoms and effects, both acute and delayed 4.2 Irritant effects Nausea, vomiting. Indication of any immediate medical attention and special treatment needed 4.3 Treat symptomatically. SECTION 5: Fire-fighting measures 5.1 Extinguishing media

Suitable extinguishing media Carbon dioxide. Dry powder. Foam. Extinguishing media that must not Full water jet. be used 5.2 Special hazards arising from the substance or mixture In the event of fire the following can be released: Carbon monoxide (CO) Advice for firefighters 5.3 Use self-contained breathing apparatus. Fire residues must be disposed of in accordance within the local regulations. Cool containers at risk with water spray jet. Collect contaminated firefighting water separately, must not be discharged into the drains.



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SEC	TION 6: Accidental release measu	ures
6.1	Personal precautions, protective equipment and emergency procedures	
		High risk of slipping due to leakage/spillage of product. Keep away from all sources of ignition.
.2	Environmental precautions	
		Do not discharge into the drains/surface waters/groundwater. Prevent spread over a wide area (e.g. by containment or oil barriers).
6.3	Methods and material for contai	nment and cleaning up
		Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.
6.4	Reference to other sections	
		See SECTION 8+13
SEC	TION 7: Handling and storage	
7.1	Precautions for safe handling	
		Use only in well-ventilated areas.
		Keep away from all sources of ignition - Refrain from smoking. Vapours can form an explosive mixture with air.
		Wash hands before breaks and after work.
		Use barrier skin cream.
		Do not eat, drink, smoke or take drugs at work. Take off contaminated clothing and wash before reuse.
7.2	Conditions for safe storage, including any incompatibilities	
		Keep only in original container. Prevent penetration into the ground.
		Do not store together with oxidizing agents.
		Keep container tightly closed. Protect from heat/overheating and from sun. Store in a dry place.
7.3	Specific end use(s)	
		See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational

exposure limits to be monitored (GB) Range [%] Substance

>90 Ethylene glycol

<u> </u>		
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, ECB-Nr.: 01-2119456816-28-XXXX	
	Long-term exposure: 20 ppm, 52 mg/m ³ , Vapour, particulate: 10 mg/m ³	
	Short-term exposure (15-minute): 40 ppm, 104 mg/m ³	

Ingredients with occupational

exposure limits to be monitored (EU)

Range [%]	Substance / EC LIMIT VALUES
>90	Ethylene glycol
	CAS: 107-21-1, EINECS/ELINCS: 203-473-3, EU-INDEX: 603-027-00-1, ECB-Nr.: 01-2119456816-28-XXXX
	Eight hours: 20 ppm, 52 mg/m ³ , H
	Short-term (15-minute): 40 ppm, 104 mg/m ³

DNEL

Range [%]	Substance	
>90	>90 Ethylene glycol, CAS: 107-21-1	
	Industrial, dermal, Long-term - systemic effects: 106 mg/m ³ .	
	Industrial, inhalative, Long-term - local effects: 35 mg/m ³ .	
	general population, dermal, Long-term - systemic effects: 53 mg/m ³ .	
	general population, inhalative, Long-term - local effects: 7 mg/m ³ .	

PNEC

Range [%]	Substance
>90	Ethylene glycol, CAS: 107-21-1
	soil, 1,53 mg/kg.
	sediment (freshwater), 20,9 mg/kg.
	sewage treatment plants (STP), 199,5 mg/l.
	seawater, 1 mg/l.
	freshwater, 10 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	Nitrile rubber, >480 min (EN 374). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Impermeable protective clothing.
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P2.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

•	internation en saore prijorear ana	enennear preperties
	Form	liquid
	Color	blue
	Odor	characteristic
	Odour threshold	not applicable
	pH-value	7,1 - 7,3
	pH-value [1%]	not determined
	Boiling point [°C]	>= 165 (ASTM D 1120)
	Flash point [°C]	> 126,5 (DIN EN 22719, ISO 2719)
	Flammability [°C]	not determined
	Lower explosion limit	4,9 Vol%
	Upper explosion limit	14,6 Vol%
	Oxidizing properties	no
	Vapour pressure/gas pressure [kPa]	0,02 (20 °C)
	Density [g/ml]	1,122 (DIN 51757) (20 °C / 68,0 °F)
	Bulk density [kg/m³]	not applicable
	Solubility in water	miscible
	Partition coefficient [n-octanol/water]	not determined
	Viscosity	20 - 30 mm²/s (20 °C) (DIN 51562)
	Relative vapour density determined in air	not applicable
	Evaporation speed	not applicable
	Melting point [°C]	< -18 (DIN/ISO 3016)
	Autoignition temperature [°C]	> 440 (DIN 51794)
	Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2. Strong heating.

10.5 Incompatible materials

Strong oxidizing agent.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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Product ATE-mix, oral, Rat: ~ 1600 mg/kg.

Range [%]	Substance
>90	Ethylene glycol, CAS: 107-21-1
	LD50, dermal, mouse: > 3500 mg/kg.
	LD50, oral, Rat: 7712 mg/kg.
	LC50, inhalative, Rat: > 2,5 mg/l 6h.
	LDLo, oral, Human: ca. 1600 mg/kg.

Serious eye damage/irritation	not determined
Skin corrosion/irritation	not determined
Respiratory or skin sensitisation	not determined
Specific target organ toxicity — single exposure	not determined
Specific target organ toxicity — repeated exposure	not determined
Mutagenicity	not determined
Reproduction toxicity	This product contains one or more substance(s) of Repr. Cat. 2 (EC). (CAS 12179-04-3) This product contains one or more substance(s) of Repr. Cat. 3 (EC). (CAS 19766-89-3)
Carcinogenicity	not determined
General remarks	
	Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1

1	Toxicity	
	Range [%]	Substance
	>90	Ethylene glycol, CAS: 107-21-1
		LC50, (96h), Pimephales promelas: 72860 mg/l.
		EC50, (96h), Selenastrum capricornutum: 6500 - 13000 mg/l.
		EC50, (48h), Daphnia magna: > 100 mg/l OECD 202.

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	> 70 % (28 d) The product is readily biodegradable to OECD 301A criteria.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

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12.6 Other adverse effects

Ecological data of complete product are not available. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

	Disposal in an incineration plant in accordance with the regulations of the local authorities.
Waste no. (recommended)	160114*
Contaminated packaging	
	Uncontaminated packaging may be reused.
	Contaminated packing should be disposed of as product waste.
Waste no. (recommended)	150110* 150102

SECTION 14: Transport information

14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name

Transport by land according to ADR/RID	NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS" IMDG

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable



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SEC	TION 15: Regulatory information	
15.1	Safety, health and environmental	regulations/legislation specific for the substance or mixture
	EEC-REGULATIONS	1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach) 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC
	TRANSPORT-REGULATIONS	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
	NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
	- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
	- VOC (1999/13/CE)	0 %
5.2	Chemical safety assessment	
		not applicable
SEC	TION 16: Other information	
6.1	R-phrases (SECTION 3)	
		R 22: Harmful if swallowed. R 63: Possible risk of harm to the unborn child.
		R 60: May impair fertility.
		R 61: May cause harm to the unborn child.
6.2	Hazard statements (SECTION 3)	
		H360F May damage fertility.
		H360D May damage the unborn child. H361d Suspected of damaging the unborn child.
		H373 May cause damage to organs through prolonged or repeated exposure. H302 Harmful if swallowed.
6.3	Abbreviations and acronyms:	
		ADR = Accord européen relatif au transport international des marchandises Dangereuses pa
		Route RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
		ADN = Accord européen relatif au transport international des marchandises dangereuses pa voie de navigation intérieure
		CAS = Chemical Abstracts Service CLP = Classification, Labelling and Packaging
		DMEL = Derived Minimum Effect Level
		DNEL = Derived No Effect Level EC50 = Median effective concentration
		ECB = European Chemicals Bureau
		EEC = European Economic Community
		EINECS = European Inventory of Existing Commercial Chemical Substances ELINCS = European List of Notified Chemical Substances
		GHS = Globally Harmonized System of Classification and Labelling of Chemicals
		IATA = International Air Transport Association IBC-Code = International Code for the Construction and Equipment of Ships carrying
		Dangerous Chemicals in Bulk
		IC50 = Inhibition concentration, 50% IMDG = International Maritime Code for Dangerous Goods
		IUCLID = International Uniform ChemicaL Information Database
		LC50 = Lethal concentration, 50% LD50 = Median lethal dose
		MARPOL = International Convention for the Prevention of Marine Pollution from Ships PBT = Persistent, Bioaccumulative and Toxic substance
		PNEC = Predicted No-Effect Concentration REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
		TLV®/TWA = Threshold limit value – time-weighted average
		TLV®STEL = Threshold limit value – short-time exposure limit
		VOC = Volatile Organic Compounds vPvB = very Persistent and very Bioaccumulative
6.4	Other information	
	Classification procedure	Acute Tox. 4: H302 Harmful if swallowed. (Calculation method) STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)

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Modified position	SECTION 2 been added: The product is required to be labelled in accordance with GHS/CLP Directives.
	SECTION 2 been added: P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.
	SECTION 2 been added: P260 Do not breathe vapours.
	SECTION 2 deleted: Classification according to conversion table Annex VII 1272/2008/EC
	SECTION 4 deleted: Change soaked clothing immediately.
	SECTION 4 been added: If eye irritation persists: Get medical advice/attention.
	SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	SECTION 4 deleted: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
	SECTION 4 been added: Take off contaminated clothing and wash before reuse.
	SECTION 5 been added: In the event of fire the following can be released:
	SECTION 5 deleted: Risk of formation of toxic pyrolysis products.
	SECTION 7 been added: Vapours can form an explosive mixture with air.
	SECTION 7 been added: Prevent penetration into the ground.
	SECTION 7 been added: Take off contaminated clothing and wash before reuse.
	SECTION 8 deleted: See SECTION 6+7.
	SECTION 8 been added: Protect the environment by applying appropriate control measures to prevent or limit emissions.
	SECTION 9 been added: blue
	SECTION 11 deleted: The product was classified on the basis of the calculation procedure of the preparation directive.
	SECTION 12 been added: Accumulation in organisms is not expected.
	SECTION 12 been added: Do not discharge product unmonitored into the environment.
	SECTION 12 deleted: No classification on the basis of the calculation procedure of the preparation directive.
	SECTION 15 deleted: Chemical safety assessments for substances in this mixture were not carried out.
	SECTION 16 been added: Observe employment restrictions for mothers-to-be and nursing mothers.
	SECTION 16 been added: Calculation method
	SECTION 16 been added: Observe employment restrictions for young people.
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