

Page 1 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Coolant Ready Mix RAF12 Plus 1 L

Art.: 6924

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

Anti-freeze

Uses advised against: No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone:(+49) 0731-1420-0, Fax:(+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

Telephone number of the company in case of emergencies: +49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statementSTOT RE2H373-May cause damage to organs through prolonged or repeated exposure if swallowed (kidneys).

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)





Page 2 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

H373-May cause damage to organs through prolonged or repeated exposure if swallowed (kidneys).

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P314-Get medical advice / attention if you feel unwell. P501-Dispose of contents / container to an approved waste disposal facility.

Ethanediol

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2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0.1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Ethanediol	Substance for which an EU exposure limit value applies.
Registration number (REACH)	01-2119456816-28-XXXX
Index	603-027-00-1
EINECS, ELINCS, NLP	203-473-3
CAS	107-21-1
content %	25-50
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	STOT RE 2, H373 (kidneys) (oral)
Codium 2 othulhovonosto	

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For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!

Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion



Page 3 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. effects/damages the central nervous system unconsciousness

liver and kidney damage

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

Antidote: None known

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water jet spray / alcohol resistant foam / CO2 / dry extinguisher

Unsuitable extinguishing media None known

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Oxides of carbon Toxic gases

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air. Remove possible causes of ignition - do not smoke. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

6.2 Environmental precautions If leakage occurs, dam up. Resolve leaks if this possible without risk. Prevent from entering drainage system. Prevent surface and ground-water infiltration, as well as ground penetration. If accidental entry into drainage system occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For large quantities: Pump product off For residue: Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling



Page 4 of 12

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

7.1.1 General recommendations

Ensure good ventilation. Avoid contact with eyes or skin. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals. Store product closed and only in original packing. Not to be stored in gangways or stair wells. Store in a dry place. Store cool.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name Eth	anediol	Content %:25-50
WEL-TWA: 10 mg/m3 (particulate), 52 r		
(vapour) (WEL), 20 ppm (52 mg/m3) (EU)	(104 mg/m3) (EU)	
Monitoring procedures:	 Compur - KITA-232 SA (502 342) 	
	- Compur - KITA-232 SB (550 267)	
	- Draeger - Ethylene Glycol 10 (5) (81 01 351)	
	- NIOSH 5523 (Glycols) - 1996	
	OSHA PV2024 (Éthylene glycol) - 1999 - EU project BC/CEN/ENTI	R/000/2002-16 card
	- 11-2 (2004)	
BMGV:	Other information: Sk (partic	culate, vapour)

Area of application	Exposure route /	Effect on health	Descriptor	Value	Unit	Note
	Environmental					
	compartment					
	Environment - freshwater		PNEC	10	mg/l	
	Environment - marine		PNEC	1	mg/l	
	Environment - sediment		PNEC	20,9	mg/kg	
	Environment - soil		PNEC	1,53	mg/kg	
	Environment - sewage		PNEC	199,5	mg/l	
	treatment plant				-	
	Environment - water,		PNEC	10	mg/l	
	sporadic (intermittent)				0	
	release					
	Environment - sediment,		PNEC	37	mg/kg dry	
	freshwater				weight	
	Environment - sediment,		PNEC	3,7	mg/kg dry	
	marine				weight	
Consumer	Human - inhalation	Long term, local effects	DNEL	7	mg/m3	
Consumer	Human - dermal	Long term, systemic	DNEL	53	mg/kg	
		effects				
Workers / employees	Human - inhalation	Long term, local effects	DNEL	35	mg/m3	
Workers / employees	Human - dermal	Long term, systemic	DNEL	106	mg/kg	
		effects				



Page 5 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

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Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Chemical resistant protective gloves (EN 374). If applicable Protective Neoprene® / polychloroprene gloves (EN 374). Protective nitrile gloves (EN 374) Minimum layer thickness in mm: 0,4 Permeation time (penetration time) in minutes:

> 480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: If OES or MEL is exceeded. Filter A2 P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.



Page 6 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties Physical state: Liquid

Physical state: Colour: Odour: Odour threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Lower explosive limit: Upper explosive limit: Vapour pressure: Vapour density (air = 1): Density: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water): Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties: Oxidising properties: 9.2 Other information Miscibility:

Miscipility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Metal content: Molar mass: Chemical heat of combustion:

Red Mild Not determined Not determined Not determined Not determined >115 °C (Pensky-Martens, closed cup) Not determined Not determined Not determined Not determined <0,01 mmHg (20°C) Not determined Not determined n.a. Not determined Mixable Not determined Not determined Not determined Not determined Product is not explosive. No Not determined Not determined Not determined

Not determined Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** Strong heat **10.5 Incompatible materials** Avoid contact with strong oxidizing agents. Avoid contact with strong acids. **10.6 Hazardous decomposition products** No decomposition when used as directed.

SECTION 11: Toxicological information



B Page 7 of 12

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

11.1 Information on toxicological effects

Coolant Ready Mix RAF12 Plus 1 L						
Art.: 6924						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.
- · ·	·			•	·	· · ·
Ethanediol						
Toxicity / offect	Endpoint	Value	Unit	Organicm	Test method	Notos

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	1600	mg/kg	Human being		
Acute toxicity, by dermal route:	LD50	9530	mg/kg	Rabbit		
Acute toxicity, by dermal route:	LD50	>3500	mg/kg	Mouse		
Skin corrosion/irritation:				Rabbit		Slightly irritant
Serious eye damage/irritation:				Rabbit		Slightly irritant
Respiratory or skin				Human being	(Patch-Test)	Negative
sensitisation:						
Germ cell mutagenicity:					OECD 471 (Bacterial	Negative
					Reverse Mutation Test)	
Symptoms:						ataxia, breathing
						difficulties,
						unconsciousness
						, cramps, fatigue

Sodium-2-ethylhexanoate						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Symptoms:						gastrointestinal
						disturbances,
						mucous
						membrane
						irritation

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).							
Coolant Ready Mix RAF12 Plus 1 L							
Art.: 6924							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Readily
degradability:							biodegradable
							(Analogous
							conclusion)



Page 8 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

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12.3. Bioaccumulative			n.d.a.
potential:			
12.4. Mobility in soil:			n.d.a.
12.5. Results of PBT			n.d.a.
and vPvB assessment			
12.6. Other adverse			n.d.a.
effects:			

Foxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.2. Persistence and degradability:		10h	90-100	%		OECD 301 A (Ready Biodegradability -	
						DOC Die-Away Test)	
Toxicity to bacteria:	EC20	30min	>1995	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Pimephales promelas	IUCLID Chem. Data Sheet (ESIS)	
12.1. Toxicity to fish:	NOEC/NOEL	7d	15380	mg/l	Pimephales promelas	U.S. EPA ECOTOX Database	
12.1. Toxicity to daphnia:	EC50	48h	>100	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL		8590	mg/l	Daphnia magna	U.S. EPA ECOTOX Database	
12.1. Toxicity to algae:	EC50	96h	6500- 7500	mg/l	Pseudokirchneriell a subcapitata		
12.2. Persistence and degradability:		28d	56	%		OECD 301 C (Ready Biodegradability - Modified MITI Test (I))	
12.3. Bioaccumulative potential:	Log Pow		-1,36				Not to be expected

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

16 01 14 antifreeze fluids containing hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.



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Page 9 of 12						
Safety data sheet according to Regulation (EC) No 1907/20	06, Annex II					
Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005						
Valid from: 22.02.2019						
PDF print date: 09.03.2019						
Coolant Ready Mix RAF12 Plus 1 L						
Art.: 6924						
Empty container completely.						
Uncontaminated packaging can be recycled.						
Dispose of packaging that cannot be cleaned in the same n	nanner as the substance.					
SECTION	14: Transport information					
General statements						
14.1. UN number:	n.a.					
Transport by road/by rail (ADR/RID)						
14.2. UN proper shipping name:						
14.3. Transport hazard class(es):	n.a.					
14.4. Packing group:	n.a.					
Classification code: LQ:	n.a. n.a.					
14.5. Environmental hazards:	Not applicable					
Tunnel restriction code:	Not applicable					
Transport by sea (IMDG-code)						
14.2. UN proper shipping name:						
14.3. Transport hazard class(es):	n.a.					
14.4. Packing group:	n.a.					
Marine Pollutant:	n.a					
14.5. Environmental hazards:	Not applicable					
Transport by air (IATA)						
14.2. UN proper shipping name:						
14.3. Transport hazard class(es):	n.a.					
14.4. Packing group:	n.a.					
14.5. Environmental hazards:	Not applicable					
14.6. Special precautions for user	· · · · · · · · · · · · · · · · · · ·					
Unless specified otherwise, general measures for safe trans	•					
14.7. Transport in bulk according to Anne Non-dangerous material according to Transport Regulation						
SECTION	15: Regulatory information					
15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture						
	tion of young people at work (national implementation of the Directive 94/33/EC)! protection (national implementation of the Directive 92/85/EEC)! ns.					
Directive 2010/75/EU (VOC):	0 %					
15.2 Chemical safety assessment A chemical safety assessment is not provided for mixtures.						
SECTION 16: Other information						
Revised sections: 2, 3, 8, 11, 12, 16 These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.						
Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):						
Classification in accordance with regulat (EC) No. 1272/2008 (CLP)	tion Evaluation method used					



Page 10 of 12

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

STOT RE 2, H373

Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed. H302 Harmful if swallowed.

STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - oral Repr. — Reproductive toxicity

Any abbreviations and acronyms used in this document:

AC **Article Categories** according, according to acc., acc. to ACGIH American Conference of Governmental Industrial Hygienists ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) ATE Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK) Biochemical oxygen demand BOD BSEF Bromine Science and Environmental Forum body weight bw CAS **Chemical Abstracts Service** Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CEC CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic Chemical oxygen demand COD CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) DVS dw dry weight for example (abbreviation of Latin 'exempli gratia'), for instance e.g. ΕČ European Community ECHA European Chemicals Agency European Economic Area EEA EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN European Norms United States Environmental Protection Agency (United States of America) EPA ERC **Environmental Release Categories** ES Exposure scenario et cetera etc.



Page 11 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924 EU **European Union** EWC European Waste Catalogue Fax number Fax. general gen. GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential HET-CAM Hen's Egg Test - Chorionallantoic Membrane HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer International Air Transport Association IATA IBC Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code) Inhibitory concentration IC IMDG-code International Maritime Code for Dangerous Goods including. inclusive incl. **IUCLID International Uniform ChemicaL Information Database** LC lethal concentration LC50 lethal concentration 50 percent kill lowest published lethal concentration LCLo Lethal Dose of a chemical I D LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. no data available n.d.a. NIOSH National Institute of Occupational Safety and Health (United States of America) NOAECNo Observed Adverse Effective Concentration NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential OECD Organisation for Economic Co-operation and Development organic org. polycyclic aromatic hydrocarbon PAH PBT persistent, bioaccumulative and toxic Chemical product category PC ΡE Polyethylene PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential parts per million ppm PROC Process category PTFE Polytetrafluorethylene REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature Structure Activity Relationship SAR SU Sector of use SVHC Substances of Very High Concern Tel. Telephone ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

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Page 12 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 22.02.2019 / 0006 Replacing version dated / version: 12.09.2018 / 0005 Valid from: 22.02.2019 PDF print date: 09.03.2019 Coolant Ready Mix RAF12 Plus 1 L Art.: 6924

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for 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) WEL-TWA, WEL-STEL reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK). WHO World Health Organization

wet weight wwt

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The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

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