

Page 1 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 02.08.2019 / 0006 Replacing version dated / version: 22.02.2019 / 0005 Valid from: 02.08.2019 PDF print date: 05.08.2019 Coolant Ready Mix RAF11 5 L Art.: 8809

## 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**

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# Coolant Ready Mix RAF11 5 L Art.: 8809

# **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

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 categorySTOT RE2Hazard classHazard categoryHazard classHazard categoryHazard classHazard categorySTOT RE2Hazard classHazard categoryClassificationHazard categoryHazard classHazard categoryHazard classHa

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

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





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

P101-If medical advice is needed, have product container or label at hand. P102-Keep out of reach of children. P260-Do not breathe vapours or spray.

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)

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 %	20-40
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302
	STOT RE 2, H373 (kidneys)
Disodium tetraborate pentahydrate	SVHC-substance
Registration number (REACH)	01-2119490790-32-XXXX
Index	005-011-02-9

Index	005-011-02-9
EINECS, ELINCS, NLP	215-540-4
CAS	12179-04-3
content %	0,1-<0,5
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319
	Repr. 1B, H360FD

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.

If the person is unconscious, place in a stable side position and consult a doctor.

#### 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.



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#### Eye contact

Remove contact lenses.

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

Ingestion

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.

Irritation of the eyes Skin resorption Effects/damages the central nervous system Unconsciousness Kidney damage

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

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

#### SECTION 5: Firefighting measures

## 5.1 Extinguishing media Suitable extinguishing media

CO2 Extinction powder Water jet spray Large fire: Water jet spray Alcohol resistant foam

#### 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

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

#### 6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration. Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

#### 6.3 Methods and material for containment and cleaning up

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



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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

7.1.1 General recommendations

Ensure good ventilation. Avoid aerosol formation.

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Keep away from sources of ignition - Do not smoke.

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. Not to be stored in gangways or stair wells. Store product closed and only in original packing. Protect from direct sunlight and warming. Under all circumstances prevent penetration into the soil.

#### 7.3 Specific end use(s)

No information available at present.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

Chemical Name	Ethanediol					Content %:20-40
WEL-TWA: 10 mg/m3 (particulate		WEL-STEL:	104 mg/m3 (vapou	r) (WEL), 40 ppm		
(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 - Ethyle	ene Glycol 10 (5) (81	01 351)		
	-	NIOSH 5523 (G	lycols) - 1996			
		OSHA PV2024	(Ethylene alycol) - 19	999 - EU project BC/CE	N/ENTR/	000/2002-16 card
	-	11-2 (2004)	, , ,	. ,		
	-	· · · ·	ol 100/a (CH 29 701	)		
BMGV:				Other information: S	k (particul	ate, vapour)
(B) Chamical Nama	Diagdium totrob	arata paptabudrat				Content %:0,1-
Chemical Name	Disodium tetrabo	orate pentahydrate	3			<0,5
WEL-TWA: 1 mg/m3		WEL-STEL:				
Monitoring procedures:						
BMGV:				Other information:	-	

Exposure route /	Effect on health	Descriptor	Value	Unit	Note
Environment - soil		PNEC	1,53	mg/kg	
Environment - sewage		PNEC	199,5	mg/l	
treatment plant					
Environment - marine		PNEC	1	mg/l	
	Environmental compartment Environment - soil Environment - sewage treatment plant	Environmental compartment Environment - soil Environment - sewage treatment plant	Environmental compartment PNEC   Environment - soil PNEC   Environment - sewage treatment plant PNEC	Environmental compartment PNEC 1,53   Environment - sewage treatment plant PNEC 199,5	Environmental compartmentPNEC1,53mg/kgEnvironment - soilPNEC199,5mg/lEnvironment - sewage treatment plantPNEC199,5mg/l



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	Environment - sediment, marine		PNEC	3,7	mg/kg	
	Environment - sediment, freshwater		PNEC	37	mg/kg	
	Environment - freshwater		PNEC	10	mg/l	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	7	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	53	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	35	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	106	mg/kg bw/day	

Area of application	Exposure route / Environmental compartment	tal		Value	Unit	Note
	Environment - sporadic (intermittent) release		PNEC	13,7	mg/l	
	Environment - freshwater		PNEC	2,9	mg/l	
	Environment - marine		PNEC	2,9	mg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	
	Environment - soil		PNEC	5,7	mg/kg	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,79	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	3,4	mg/m3	
Consumer	Human - dermal	Long term, systemic effects	DNEL	159,5	mg/kg bw/day	
Consumer	Human - oral	Short term, systemic effects	DNEL	0,79	mg/kg	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	6,7	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	316,4	mg/kg bw/day	

B 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.



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Eye/face protection:

Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection: Chemical resistant protective gloves (EN 374). If applicable Protective nitrile gloves (EN 374). Protective Neoprene® / polychloroprene gloves (EN 374). Protective PVC gloves (EN 374) Minimum layer thickness in mm: 0,5 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.

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

Respiratory protection: Normally not necessary. 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. 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.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Cyan
Odour:	Mild
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	n.a.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined



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## Density:

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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: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Not determined n.a. Not determined Soluble Not determined Not determined Not determined Product is not explosive. No

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** See also section 5.2 No decomposition when used as directed.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

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.



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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	IUCLID Chem. Data	Does not
					Sheet (ESIS)	conform with EU
						classification.
Acute toxicity, by oral route:	LD50	1600	mg/kg	Cat		
Acute toxicity, by dermal route:	LD50	9530	mg/kg	Rabbit		
Skin corrosion/irritation:				Rabbit		Not 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

Disodium tetraborate pentahyo	Disodium tetraborate pentahydrate							
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	3200-3400	mg/kg	Rat				
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit				
Acute toxicity, by inhalation:	LC50	>2	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)			
Skin corrosion/irritation:				Rabbit		Not irritant, Analogous conclusion		
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant		
Respiratory or skin				Guinea pig	OECD 406 (Skin	Not sensitizising		
sensitisation:					Sensitisation)			
Carcinogenicity:				Mouse	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	No indications of such an effect., Analogous conclusion		
Reproductive toxicity:				Rat		Repr. 1B, Analogous conclusion		
Symptoms:						breathing difficulties, headaches, gastrointestinal disturbances, dizziness, nausea		

## **SECTION 12: Ecological information**

Coolant Ready Mix RAF11 5 L										
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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							n.d.a.			
degradability:										
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										



n.d.a.

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12.6. Other adverse effects:

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
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
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Pimephales promelas	IUCLID Chem. Data Sheet (ESIS)	
12.1. Toxicity to daphnia:	EC50	48h	41100	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	96h	6500- 7500	mg/l	Pseudokirchneriell a subcapitata		
Toxicity to bacteria:	EC50	16h	>10000	mg/l	Pseudomonas putida	IUCLID Chem. Data Sheet (ESIS)	
Other information:	BOD5		0,78	g/g			IUCLID
Other information:	COD		1,19	g/g			IUCLID
Other information:	ThOD		1,29	g/g			IUCLID

Disodium tetraborate pentahydrate							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL	96h	13	mg/l	Brachydanio rerio		
12.1. Toxicity to fish:	LC50	96h	74	mg/l	Limanda limanda		Analogous
							conclusion
12.1. Toxicity to daphnia:	EC50	48h	133	mg/l	Daphnia magna		Analogous
							conclusion
12.1. Toxicity to algae:	NOEC/NOEL	10d	50	mg/l			
12.3. Bioaccumulative	BCF		121				Analogous
potential:							conclusion

### **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.

Empty container completely.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Uncontaminated packaging can be recycled.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

## **SECTION 14: Transport information**

#### **General statements**

14.1. UN number:



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#### 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:	n.a.
LQ:	n.a.
14.5. Environmental hazards:	Not applicable
Tunnel restriction code:	
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 transport must be followed.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

### **SECTION 15: Regulatory information**

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

Observe restrictions:

Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)! Regulation (EC) No 1907/2006, Annex XVII

Disodium tetraborate pentahydrate

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)! Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC):

#### **15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

## **SECTION 16: Other information**

**Revised sections:** 

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 regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
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).

H360FD May damage fertility. May damage the unborn child. H302 Harmful if swallowed.

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Replacing version dated / version: 22.02.2019 / 0005 Valid from: 02.08.2019 PDF print date: 05.08.2019 Coolant Ready Mix RAF11 5 L Art.: 8809 H319 Causes serious eye irritation. H373 May cause damage to organs through prolonged or repeated exposure. STOT RE — Specific target organ toxicity - repeated exposure Acute Tox. — Acute toxicity - oral Eye Irrit. - Eye irritation Repr. — Reproductive toxicity Any abbreviations and acronyms used in this document: according, according to acc., acc. to Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) Adsorbable organic halogen compounds AOX approx. approximately Art., Art. no. Article number ASTM ASTM International (American Society for Testing and Materials) 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) BSEF The International Bromine Council body weight hw CAS **Chemical Abstracts Service** CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic DMEL Derived Minimum Effect Level DNEL Derived No Effect Level dw dry weight e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EC European Community ECHA European Chemicals Agency EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances ΕN European Norms FPA United States Environmental Protection Agency (United States of America) et cetera etc. European Union EU EVAL Ethylene-vinyl alcohol copolymer Fax. Fax number gen. general Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential IARC International Agency for Research on Cancer International Air Transport Association IATA IBC (Code) International Bulk Chemical (Code) International Maritime Code for Dangerous Goods IMDG-code including, inclusive incl. IUCLID International Uniform Chemical Information Database Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. no data available n.d.a. OECD Organisation for Economic Co-operation and Development organic org. PBT persistent, bioaccumulative and toxic ΡE Polyethylene PNEC Predicted No Effect Concentration parts per million ppm PVC Polyvinylchloride

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

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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. Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International RID Carriage of Dangerous Goods by Rail) SVHC Substances of Very High Concern Telephone Tel. UN RTDG United Nations Recommendations on the Transport of Dangerous Goods VOC Volatile organic compounds vPvB very persistent and very bioaccumulative wwt wet weight 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. These statements were made by:

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