

according to Regulation (EC) No 1907/2006

**HIGHTEC ANTIFREEZE COOLANT AN-SF 12+** 

#### Product code: 21014 Revision date: 19.04.2023 Page 1 of 12 SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier HIGHTEC ANTIFREEZE COOLANT AN-SF 12+ 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture Radiator antifreeze 1.3. Details of the supplier of the safety data sheet Company name: ROWE Mineralölwerk GmbH Street: Langgewann 101 Place: D-67547 Worms Telephone: +49 (0)6241 5906-0 Telefax: +49 (0)6241 5906-999 E-mail: info@rowe-oil.com Contact person: **Product Compliance** E-mail: sdb@rowe-oil.com Internet: www.rowe-oil.com 1.4. Emergency telephone Ireland: Public (8am-10pm) +353 180 921 66, Healthcare Professionals +353 1809 2566 other Countries: Emergency CONTACT (24-Hour-Number): GBK number: GmbH +49 (0)6132-84463

# **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Acute Tox. 4; H302 STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

## 2.2. Label elements

### Regulation (EC) No 1272/2008

Hazard components for labelling

ethanediol; ethylene glycol Warning

Signal word:

**Pictograms:** 



#### Hazard statements

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

#### **Precautionary statements**

· · · · · · · · · · · · · · · · · · ·	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P301+P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P501	Dispose of contents/container to of the disposal according to local regulations.



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### 2.3. Other hazards

following inhalation: Vapour and mist concentrations above the allowable levels or unusually high concentrations may cause irritation to the nose and throat as well as headache, nausea and drowsiness. After skin contact: Brief contact with the product may cause slight skin irritation. Prolonged contact (e.g. through soaked clothing) may result in serious skin irritation with symptoms such as redness and swelling. Following eye contact: Conjunctival redness. after ingestion: Oral ingestion of small amounts causes kidney damage.

Caution if victim vomits: Risk of aspiration!

### **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

### **Relevant ingredients**

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No	1272/2008)			
107-21-1	ethanediol; ethylene glycol				
	203-473-3	603-027-00-1	01-2119456816-28		
	Acute Tox. 4, STOT RE 2; H302 H				
93918-10-6	Potassium 3,5,5-trimethylhexanoat	e		1 - < 2.5 %	
	299-890-3				
	Skin Irrit. 2, Eye Irrit. 2; H315 H319				
29385-43-1	methyl-1H-benzene triazole		0.1 - < 0.3 %		
	249-596-6		01-2119979081-35		
	Repr. 2, Acute Tox. 4, Aquatic Chro				

Full text of H and EUH statements: see section 16.

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity					
	Specific Conc	Specific Conc. Limits, M-factors and ATE						
107-21-1	203-473-3	ethanediol; ethylene glycol						
	oral: ATE = 5	00 mg/kg						
93918-10-6	299-890-3	Potassium 3,5,5-trimethylhexanoate	1 - < 2.5 %					
	oral: LD50 = >= 2000 mg/kg							
29385-43-1	249-596-6	methyl-1H-benzene triazole	0.1 - < 0.3 %					
	inhalation: LC mg/kg	50 = >1730 mg/l (vapours); dermal: LD50 = > 4000 mg/kg; oral: LD50 = 720						

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

### After inhalation

Provide fresh air. Medical treatment necessary.

### After contact with skin

Wash with plenty of water. Immediately remove any contaminated clothing, shoes or stockings. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.



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#### After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

No information available.

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

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## 5.2. Special hazards arising from the substance or mixture

Non-flammable.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

### General advice

Avoid contact with skin, eyes and clothes. Do not breathe mist/vapours/spray.

#### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Remove persons to safety.

#### For emergency responders

Wear personal protection equipment (refer to section 8).

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

#### For containment

Stop leak if safe to do so. Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### Other information

Clean contaminated articles and floor according to the environmental legislation.

## 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.



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### Advice on protection against fire and explosion No special fire protection measures are necessary.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

## 7.3. Specific end use(s)

Radiator antifreeze

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

#### 8.1. Control parameters

#### **Occupational exposure limits**

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
107-21-1	(OLD) 1,2-Dihydroxyethane, particulate	-	10		TWA (8 h)	

## **DNEL/DMEL** values

CAS No	Substance		-	-
DNEL type		Exposure route	Effect	Value
107-21-1	ethanediol; ethylene glycol			
Worker DNEL	long-term	inhalation	local	35 mg/m³
Worker DNEL	long-term	dermal	systemic	106 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	local	7 mg/m³
Consumer DN	EL, long-term	dermal	systemic	53 mg/kg bw/day
29385-43-1	methyl-1H-benzene triazole			
Worker DNEL	long-term	inhalation	systemic	21,2 mg/m³
Worker DNEL	long-term	dermal	systemic	0,3 mg/kg bw/day
Consumer DN	EL, long-term	dermal	systemic	0,01 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	0,01 mg/kg bw/day



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#### **PNEC** values

CAS No	Substance		
Environmenta	al compartment	Value	
107-21-1	ethanediol; ethylene glycol		
Freshwater		10 mg/l	
Freshwater (i	ntermittent releases)	10 mg/l	
Marine water		1 mg/l	
Freshwater s	ediment	37 mg/kg	
Marine sedim	nent	3,7 mg/kg	
Micro-organisms in sewage treatment plants (STP) 199,5 mg/l			
Soil		1,53 mg/kg	
29385-43-1	methyl-1H-benzene triazole		
Freshwater		0,008 mg/l	
Freshwater (i	ntermittent releases)	0,086 mg/l	
Marine water		0,02 mg/l	
Freshwater sediment		0,117 mg/kg	
Marine sedim	Marine sediment		
Micro-organis	Micro-organisms in sewage treatment plants (STP)		
Soil		0,0187 mg/kg	

### 8.2. Exposure controls





#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Skin protection

Use of protective clothing.

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

## **Environmental exposure controls**

Avoid release to the environment.

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

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

Physical state:

Liquid



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Colour:	magenta						
Odour:	characteristic						
		Test method					
Melting point/freezing point:	not determined						
Boiling point or initial boiling point and boiling range:	not determined						
Flammability:	Not readily combustible.						
Lower explosion limits:	not determined						
Upper explosion limits:	not determined						
Flash point:	>110 °C	DIN 51758					
Auto-ignition temperature:	not determined						
Decomposition temperature:	not determined						
pH-Value:	7,8 - 8,5 (50%)						
Viscosity / kinematic:	not determined						
Water solubility:	completely miscible						
Solubility in other solvents							
not determined							
Partition coefficient n-octanol/water:	not determined						
Vapour pressure:	<0,1 hPa						
(at 20 °C)							
Density (at 20 °C):	~ 1,12 g/cm <sup>3</sup>	DIN 51757					
Relative vapour density:	not determined						
Particle characteristics:	not relevant						
9.2. Other information							
Other safety characteristics							
Pour point:	~ -38 (50 Vol-% in H2O) °C						
SECTION 10: Stability and reactivity							

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Harmful if swallowed.

#### **ATEmix calculated**

ATE (oral) 538,4 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name	Chemical name							
	Exposure route	Dose		Species	Source	Method			
107-21-1	ethanediol; ethylene glyc	ol							
	oral	ATE mg/kg	500						
93918-10-6	Potassium 3,5,5-trimethy	Potassium 3,5,5-trimethylhexanoate							
	oral	LD50 mg/kg	>= 2000	Rat	Study report (1986)	OECD Guideline 401			
29385-43-1	methyl-1H-benzene triaz	ole							
	oral	LD50 mg/kg	720	Rat	Study report (1983)	OECD Guideline 401			
	dermal	LD50 mg/kg	> 4000	Rabbit					
	inhalation (1 h) vapour	LC50 mg/l	>1730	Rat					

## Irritation and corrosivity

Based on available data, the classification criteria are not met.

### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

## STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (ethanediol; ethylene glycol) Frequently or prolonged contact with skin may cause dermal irritation.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### 11.2. Information on other hazards

#### Other information

No information available.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Based on available data, the classification criteria are not met. The product is not: Ecotoxic.



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CAS No	Chemical name									
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method			
107-21-1	ethanediol; ethylene glyco	ethanediol; ethylene glycol								
	Acute fish toxicity	LC50 mg/l	> 72860	96 h	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	EPA 600/4-90/027. U.S. Environmental Pro			
	Acute algae toxicity	ErC50 13000 mg/l	6500 -	96 h	Pseudokirchneriella subcapitata	Study report (1982)	other: EPA 600/9-78-018, 1978			
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	Study report (1998)	OECD Guideline 202			
	Fish toxicity	NOEC mg/l	15380	7 d	Pimephales promelas	Environ. Toxicology and Chemistry, Vol.	other: EPA 600/4-89/001. U.S. Environmen			
	Algae toxicity	NOEC mg/l	> 100	8 d	Scenedesmus quadricauda	REACh Registration Dossier	OECD Guideline 201			
	Crustacea toxicity	NOEC 15000 mg/l	7500 -	21 d	Daphnia magna	REACh Registration Dossier	other: ASTM			
93918-10-6	Potassium 3,5,5-trimethyl	hexanoate								
	Acute algae toxicity	ErC50 mg/l	189,87	72 h	Raphidocelis subcapitata	Study report (2016)	OECD Guideline 201			
29385-43-1	methyl-1H-benzene triazo	le								
	Acute fish toxicity	LC50	55 mg/l	96 h	Cyprinodon variegatus	Study report (2003)	other: The test procedure is based on te			
	Acute algae toxicity	ErC50	75 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1994)	OECD Guideline 201			
	Acute crustacea toxicity	EC50 mg/l	15,8	48 h	other aquatic crustacea: Daphnia galeata	Environ Sci Pollut Res 19:1781-1790 (201	OECD Guideline 202			
	Crustacea toxicity	NOEC mg/l	<0,4	21 d	Daphnia magna	Study report (1995)	other: "Daphnia Reproduction Test" of OE			

## 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name						
	Method	Value	d	Source			
	Evaluation						
93918-10-6	Potassium 3,5,5-trimethylhexanoate						
	OECD 301B	87,9	28				
	Readily biodegradable (according to OECD criteria).						

## 12.3. Bioaccumulative potential

The product has not been tested.



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#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol; ethylene glycol	-1,36
93918-10-6	Potassium 3,5,5-trimethylhexanoate	-0,47
29385-43-1	methyl-1H-benzene triazole	1,079

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

### **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

## **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances; hazardous waste

## List of Wastes Code - used product

160114 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08); antifreeze fluids containing hazardous substances; hazardous waste

#### Contaminated packaging

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

## Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Inland waterways transport (ADN)14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Marine transport (IMDG)

14.1. UN number or ID number: 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

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14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.	
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.	
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing group:	No dangerous good in sense of this transport regulation.	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
14.6. Special precautions for user		
No dangerous good in sense of this tr	ansport regulation.	
14.7. Maritime transport in bulk according	to IMO instruments	
No dangerous good in sense of this tr	ansport regulation.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU regulatory information		
Restrictions on use (REACH, annex XVII)	):	
Entry 3, Entry 75		
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the work protection guideline' (94/33/EC).	juvenile
Water hazard class (D):	1 - slightly hazardous to water	
15.2. Chemical safety assessment		
Chemical safety assessments for substances in this mixture were not carried out.		
SECTION 16: Other information		

### Changes

This data sheet contains changes from the previous version in section(s): 1,2,9.



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## Abbreviations and acronyms Acute Tox: Acute toxicity Skin Irrit: Skin irritation Eye Irrit: Eye irritation Repr: Reproductive toxicity STOT RE: Specific target organ toxicity - repeated exposure Aquatic Chronic: Chronic aquatic hazard ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety

## assessment, chapter R.20 (Table of terms and abbreviations).

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
STOT RE 2; H373	Calculation method

### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.



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H373 May cause damage to organs through prolonged or repeated exposure.H411 Toxic to aquatic life with long lasting effects.

## **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)