Telefax: +49 (0)6241 5906-999



## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 1 of 9

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

## 1.1. Product identifier

HIGHTEC ANTIFREEZE READY-MIX -25 °C

UFI: WRQS-TKRW-S004-7KA2

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

#### Use of the substance/mixture

Radiator anti-freeze

### 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

e-mail: info@rowe-oil.com
Internet: www.rowe-oil.com
Responsible Department: sdb@rowe-oil.com

**1.4. Emergency telephone** Giftnotruf Mainz (DE; E) +49 (0)6131-19240

number:

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

### Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4 Hazard Statements:

Harmful if swallowed.

### 2.2. Label elements

### Regulation (EC) No. 1272/2008

#### Hazard components for labelling

ethanediol

Signal word: Warning

Pictograms:



## **Hazard statements**

H302 Harmful if swallowed.

# **Precautionary statements**

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.

P330 Rinse mouth.

P501 Dispose of contents/container to of the disposal according to local regulations.

### 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.



according to Regulation (EC) No 1907/2006

### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 2 of 9

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

# **Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification	•	•	
107-21-1	ethanediol			30 - < 60 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			
3164-85-0	2-ethylhexanoic acid, potassium sa		0.3 - < 1 %	
	221-625-7		01-2119980714-29	
	Repr. 2, Skin Irrit. 2, Eye Dam. 1; H	1361d H315 H318		
95193-83-2	1H-Indene-1,3(2H)-dione, 2-(2-quir	nolinyl)-, sulfonated, sodium salts		< 0.1 %
	305-897-5		01-2120752822-53	

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

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### **General information**

Take off contaminated clothing. Self-protection of the first aider

### After inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water/.?.

If skin irritation or rash occurs: Get medical advice/attention.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist. Call a physician immediately.

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

# After ingestion

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

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

## 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. Ethylene glycol poisoning may cause initial symptoms such as behavioral disorders,



according to Regulation (EC) No 1907/2006

#### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 3 of 9

drowsiness, vomiting, diarrhea, thirst and spasms. Kidney damage and kidney failure along with metabolic acidosis are late poisoning symptoms. Prompt medical treatment complemeted by haemodialysis, if necessary, can reduce the toxic effect. Intravenous administration of ethanol in a sodium bicarbonate solution is a recognized antidote. For further treatment information, please consult the Poison Control Centre.

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

## 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings. Dry extinguishing powder. Water fog. Foam. Carbon dioxide.

#### Unsuitable extinguishing media

High power water jet.

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

Non-flammable. Special exposure hazards arising from the substance itself, combustion products, resulting gases: Carbon monoxide carbon black Pyrolysis products, toxic.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. In case of fire and/or explosion do not breathe fumes.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. 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

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment. Do not breathe gas/fumes/vapour/spray.

Special danger of slipping by leaking/spilling product.

Ventilate affected area.

# 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal.

### 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. Avoid contact with skin and eyes.

Wash hands thoroughly after handling.

Protect skin by using skin protective cream.



according to Regulation (EC) No 1907/2006

#### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 4 of 9

### Advice on protection against fire and explosion

No special fire protection measures are necessary.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

Do not store together with: Oxidizing agents. Do not store together with: Food and fodder

### Further information on storage conditions

Keep away from heat.

### 7.3. Specific end use(s)

Radiator anti-freeze

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

#### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	WEL
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

# 8.2. Exposure controls

# Protective and hygiene measures

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. Do not eat, drink, smoke or sneeze at the workplace. Keep away from food, drink and animal feedingstuffs. Protect skin by using skin protective cream. Wash hands before breaks and after work. Apply skin care products after work. Remove contaminated, saturated clothing immediately. Do not put any product-impregnated cleaning rags into your trouser pockets.

# Eye/face protection

Wear eye protection/face protection. Wear eye/face protection.

#### 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. Avoid contact with skin.

Tested protective gloves are to be worn: Butyl rubber. / NBR (Nitrile rubber).

# Skin protection

Use of protective clothing. Body protection: not required.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection. With correct and proper use, and under normal conditions, breathing protection is not required.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!

Print date: 24.11.2020



# **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 5 of 9

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

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

Physical state: liquid Colour: blue

Odour: characteristic

Test method

pH-Value (at 20 °C):  $\sim$  7,5-9

Changes in the physical state

Melting point:

Initial boiling point and boiling range:

No data available.

not determined

: DIN 51794

Flash point: >110 °C DIN 51758

**Flammability** 

Solid: not applicable
Gas: not applicable

**Explosive properties** 

The product is not: Explosive.

Lower explosion limits: not determined Upper explosion limits: not determined

**Auto-ignition temperature** 

Solid: not applicable
Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties** 

Not oxidising.

Vapour pressure: <0,1 hPa

(at 20 °C)

Density (at 20 °C): ~ 1,045 g/cm³ DIN 51757

Water solubility: completely miscible

Solubility in other solvents

not determined

Partition coefficient: not determined

Viscosity / kinematic: DIN 51562

Vapour density: not determined Evaporation rate: not determined

9.2. Other information

Solid content: not determined

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

This product is stable under normal conditions. Hazardous reactions are unlikely.

### 10.2. Chemical stability

This product is stable under normal conditions. Hazardous reactions are unlikely.

## 10.3. Possibility of hazardous reactions



according to Regulation (EC) No 1907/2006

### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 6 of 9

possible with strong oxidizing agents.

This product is stable under normal conditions. Hazardous reactions are unlikely.

#### 10.4. Conditions to avoid

possible with strong oxidizing agents.

## 10.5. Incompatible materials

possible with strong oxidizing agents.

# 10.6. Hazardous decomposition products

none

### **Further information**

none

## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

#### **ATEmix** calculated

ATE (oral) 1217,9 mg/kg

## **Acute toxicity**

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
107-21-1	ethanediol					
	oral	ATE 500 mg/kg				
	dermal	LD50 10600 mg/kg	Rabbit	GESTIS		

### Irritation and corrosivity

Frequently or prolonged contact with skin may cause dermal irritation.

#### Sensitising effects

not determined

## Carcinogenic/mutagenic/toxic effects for reproduction

The product is not classified.

#### STOT-repeated exposure

Frequently or prolonged contact with skin may cause dermal irritation.

#### Specific effects in experiment on an animal

No data available

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Oral ingestion of small amounts causes kidney damage.

Contact with the eyes causes eye inflammation.

Inhalation of mists and vapours causes impaired consciousness.

## **Further information**

No special hazards known when the product is properly used and the precautionary measures indicated are observed.

# **SECTION 12: Ecological information**

## 12.1. Toxicity

The product is not: Ecotoxic.



according to Regulation (EC) No 1907/2006

#### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 7 of 9

CAS No	Chemical name	Chemical name					
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
107-21-1	ethanediol						
	Acute fish toxicity	LC50 mg/l	18500		Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 7500 mg/l	6500-		Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	>10,000	48 h	Daphnia magna		

## 12.2. Persistence and degradability

According to EU criteria: expected to biodegrade fast The product basis (ethylene glycol) itself is readily biodegradable.

### 12.3. Bioaccumulative potential

Biological degradation: Yes, rapidly

### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
107-21-1	ethanediol	-1,34

#### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

No data available

### 12.6. Other adverse effects

No data available

### **Further information**

Avoid release to the environment. Do not allow uncontrolled discharge of product into 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

Wash with plenty of water. Completely emptied packages can be recycled. Contaminated packaging should be emptied to the maximum possible extent. After appropriate cleaning, it can be routed to reuse. Packaging not amenable to cleaning must be disposed of in accordance with the statutory regulations.

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

## Land transport (ADR/RID)

## 14.1. UN number:

No dangerous good in sense of this transport regulation.



according to Regulation (EC) No 1907/2006

#### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 8 of 9

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.

Inland waterways transport (ADN)

14.1. UN 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.

Marine transport (IMDG)

14.1. UN 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.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN 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 data available

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

No dangerous good in sense of this transport regulation.

# **SECTION 15: Regulatory information**

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

**EU** regulatory information

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

**National regulatory information** 

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC).

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): 2,3,9.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route



according to Regulation (EC) No 1907/2006

### HIGHTEC ANTIFREEZE READY-MIX -25 °C

Revision date: 04.09.2020 Page 9 of 9

(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 table at http://abbrev.esdscom.eu

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

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method

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

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eve damage.

H361d Suspected of damaging the unborn child.

## **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 hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)