

according to Regulation (EC) No 1907/2006

**HIGHTEC Racing Kühlerschutz**

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 Racing Kühlerschutz

UFI: 38NR-EKK3-A004-8F1W

**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	Telefax: +49 (0)6241 5906-999
e-mail:	info@rowe-oil.com	
Internet:	www.rowe-oil.com	
Responsible Department:	sdb@rowe-oil.com	

**1.4. Emergency telephone number:** Giftnotruf Mainz (DE; E) +49 (0)6131-19240**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:  
Serious eye damage/eye irritation: Eye Irrit. 2  
Hazard Statements:  
Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P501	Dispose of contents/container to of the disposal according to local regulations.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

**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.

according to Regulation (EC) No 1907/2006

**HIGHTEC Racing Kühlerschutz**

Revision date: 04.09.2020

Page 2 of 9

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			2.5 - < 5 %
	203-473-3	603-027-00-1		
	Acute Tox. 4; H302			
3164-85-0	2-ethylhexanoic acid, potassium salt			1 - < 2.5 %
	221-625-7		01-2119980714-29	
	Repr. 2, Skin Irrit. 2, Eye Dam. 1; H361d H315 H318			

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**

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

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, drowsiness, vomiting, diarrhea, thirst and spasms. Kidney damage and kidney failure along with metabolic acidosis are late poisoning symptoms. Prompt medical treatment complemented 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.

according to Regulation (EC) No 1907/2006

**HIGHTEC Racing Kühlerschutz**

Revision date: 04.09.2020

Page 3 of 9

**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**

Avoid contact with skin and eyes.  
Wash hands thoroughly after handling.  
Protect skin by using skin protective cream.

**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.

according to Regulation (EC) No 1907/2006

### HIGHTEC Racing Kühlerschutz

Revision date: 04.09.2020

Page 4 of 9

#### 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/m <sup>3</sup>	fibres/ml	Category	Origin
107-21-1	Ethane-1,2-diol, vapour	20	52		TWA (8 h)	WEL
		40	104		STEL (15 min)	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 or drink. 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

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. Avoid contact with skin.

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

##### Skin protection

Wear suitable protective clothing.

##### 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!

according to Regulation (EC) No 1907/2006

### HIGHTEC Racing Kühlerschutz

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: light orange  
 Odour: characteristic

pH-Value: 7,5-9

#### Test method

#### Changes in the physical state

Melting point: No data available.  
 Initial boiling point and boiling range: not determined  
 Pour point: -3 °C  
 Ignition temperature in °C: >400 °C DIN 51794  
 Flash point: >100 °C DIN 51758

#### Flammability

Solid: not applicable  
 Gas: not applicable  
 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): 1,03 g/cm³ DIN 51757

Water solubility: completely miscible

#### Solubility in other solvents

not determined  
 Partition coefficient: not determined  
 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

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

possible with strong oxidizing agents.

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

according to Regulation (EC) No 1907/2006

**HIGHTEC Racing Kühlerschutz**

Revision date: 04.09.2020

Page 6 of 9

**10.4. Conditions to avoid**

Oxidizing agents, strong.

**10.5. Incompatible materials**

Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

none

**Further information**

none

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity**

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

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 Racing Kühlerschutz**

Revision date: 04.09.2020

Page 7 of 9

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
107-21-1	ethanediol					
	Acute fish toxicity	LC50 mg/l	18500	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 7500 mg/l	6500-	96 h	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**

The product has not been tested.

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

The product has not been tested.

**12.6. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. 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. Do not allow to enter into soil/subsoil. 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**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. 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.

according to Regulation (EC) No 1907/2006

**HIGHTEC Racing Kühlerschutz**

Revision date: 04.09.2020

Page 8 of 9

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

- 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.

**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 dangerous good in sense of this transport regulation.

**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 (SEVESO III): Not subject to 2012/18/EU (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): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information**



according to Regulation (EC) No 1907/2006

### HIGHTEC Racing Kühlerschutz

Revision date: 04.09.2020

Page 9 of 9

#### Abbreviations and acronyms

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%

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

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

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

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 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.)*