

Material Safety Data Sheet

according to ANSI Z400.1-2004

HIGHTEC ANTIFREEZE AN (USA)

Print date: 27.11.2013

Product code: 21066-998-00

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

HIGHTEC ANTIFREEZE AN (USA)

Chemical characterization (Mixture)

Details of the supplier of the safety data sheet

Company name:	ROWE MINERALÖLWERK GMBH	
Street:	Borkensteiner Mühle 7	
Place:	D-67308 Bubenheim	
Telephone:	+0049 - (0)6355 9541-0	Telefax: +0049 - (0)6355 9541-41
e-mail:	info@rowe-mineraloel.com	
Internet:	www.rowe-mineraloel.com	
Responsible Department:	Kundenservice	

Emergency telephone: Giftnotruf Mainz (DE; E)

+49 (0)6131-19240

SECTION 2: Hazards identification
Route(s) of Entry
Signs and Symptoms of Exposure

Carcinogenicity (NTP):
 Carcinogenicity (IARC):
 Carcinogenicity (OSHA):

Other hazards

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.
 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.
 Oral ingestion of small amounts causes kidney damage.

SECTION 3: Composition/information on ingredients
Mixtures
Hazardous components

CAS No	Components	Quantity
107-21-1	ethanediol, ethylene glycol	95 - 100 %
532-32-1	Natriumbenzoat	1 - 5 %
12179-04-3	disodium tetraborate pentahydrate; borax pentahydrate	< 1 %

SECTION 4: First aid measures
Description of first aid measures
Indication of any immediate medical attention and special treatment needed

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 completed by haemodialysis, if necessary,

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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
Extinguishing media
Special hazards arising from the substance or mixture
SECTION 6: Accidental release measures
SECTION 7: Handling and storage
Precautions for safe handling
Advice on safe handling

No special measures required when used in accordance with the instructions.

Conditions for safe storage, including any incompatibilities
SECTION 8: Exposure controls/personal protection
Control parameters
Exposure limits

CAS No	Components	ppm	mg/m ³	fib/cc	Category	Origin
12179-04-3	Borates, tetra, sodium salts (Pentahydrate)	-	1		TWA (8 h)	REL

Exposure controls
SECTION 9: Physical and chemical properties
Information on basic physical and chemical properties

Physical state:

Color:

pH-Value:

7,2

Changes in the physical state

Melting point:

-18 °C

Flash point:

115 °C

Density (at 20 °C):

 ~1,12 g/cm³
Test method
SECTION 10: Stability and reactivity

Stability: Stable

Possibility of Hazardous Reactions: Will not occur

SECTION 11: Toxicological information
Information on toxicological effects
Acute toxicity

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CAS No	Components				
	Exposure routes	Method	Dose	Species	Source
107-21-1	ethanediol, ethylene glycol				
	oral	LD50	4000 mg/kg		
	dermal	LD50 mg/kg	10600	Kaninchen	GESTIS

Carcinogenic/mutagenic/toxic effects for reproduction

The product is not classified.

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
Persistence and degradability

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

SECTION 13: Disposal considerations
Waste treatment methods
Contaminated packaging

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
Marine transport (IMDG)
Other applicable information

No dangerous good in sense of this transport regulation.

Air transport (ICAO)
Other applicable information

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information
U.S. Regulations
SARA

Section 313 Toxic Release Chemicals

Ethylene glycol (CAS 107-21-1).

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SECTION 16: Other information
Hazardous Materials Information Label (HMIS)

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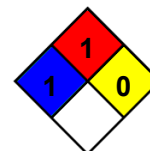
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Health: 1
Flammability: 1
Physical Hazard: 0

NFPA Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0
Unique Hazard:



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