according to 29 CFR 1910.1200(g)

#### **Huber Antifreeze**

Revision date: 07/31/2023

#### 1. Identification

#### Product identifier

Huber Antifreeze

#### Recommended use of the chemical and restrictions on use

#### Use of the substance/mixture

Coolant

#### Uses advised against

Any non-intended use.

#### Details of the supplier of the safety data sheet

Company name:	Huber USA Inc.	
Street:	1101 Nowell Rd Suite 110	
Place:	USA-NC 27607 Raleigh	
Telephone:	800-726-4877	
E-mail:	info@huber-online.com	
Internet:	www.huber-usa.com	
Emergency phone number:	Toll Free: 1-800-424-9300; Local: +1-703-527-3887	

# 2. Hazard(s) identification

#### ••

### Classification of the chemical

#### 29 CFR Part 1910.1200

Acute toxicity: Acute Tox. 4 (oral) Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

### Label elements

29 CFR Part 1910.1200

Signal word:

Pictograms:



#### **Hazard statements**

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

Precautionary statements

Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

Get medical advice/attention if you feel unwell.

Dispose of contents/container to local/regional/national/international regulations.

### Hazards not otherwise classified

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 3. Composition/information on ingredients

#### <u>Mixtures</u>

#### Hazardous components

CAS No Components

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	107-21-1	ethanediol: ethylene glycol	50 - 100 %	

#### 4. First-aid measures

#### **Description of first aid measures**

#### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

#### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment. Take off immediately all contaminated clothing.

#### After contact with eyes

Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

#### After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

Irritant effect on skin, eyes and respiratory organs; headache, drowsiness; Nausea; dizziness; balance disorders; Unconsciousness.

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

Maintain good diuresis; monitor renal function, electrolyte and acid-base balance. Early administration of ethanol may counteract the toxicity of ethylene glycol (metabolic acidosis and renal damage). Supportive measures required. Treatment depends on physician's assessment and patient's condition.

#### 5. Fire-fighting measures

#### Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

#### Unsuitable extinguishing media

High power water jet.

#### Specific hazards arising from the chemical

Can be released in case of fire: Carbon dioxide (CO2). Carbon monoxide (CO).

#### Special protective equipment and precautions for fire-fighters

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

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

#### 6. Accidental release measures

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

#### General advice

See protective measures under point 7 and 8.

#### For non-emergency personnel

Wear personal protection equipment (refer to section 8).

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#### For emergency responders

No special measures are necessary.

#### Environmental precautions

Discharge into the environment must be avoided.

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

#### For containment

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.

#### For cleaning up

Clean contaminated objects and areas thoroughly observing environmental regulations.

### Reference to other sections

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

#### 7. Handling and storage

#### Precautions for safe handling

#### Advice on safe handling

Wear personal protection equipment (refer to section 8).

Handle and open container with care. Do not breathe fume/ mist/ vapors. Vapors / aerosols should be extracted by suction directly at point of origin.

#### Advice on protection against fire and explosion

Usual measures for fire prevention.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharges.

#### Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

#### Further information on handling

General protection and hygiene measures: See section 8.

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Do not store in containers made of aluminium, zinc, tin and their alloys.

#### Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Acid. Radioactive substances. Infectious substances. Food and animal feedingstuff.

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 20 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

#### 8. Exposure controls/personal protection

### Control parameters

#### Additional advice on limit values

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### Exposure controls

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### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

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

#### Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). Standards: EN 166 or 29 CFR 1910.133

### Hand protection

Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of the glove material 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of the glove material 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of the glove material 0.5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of the glove material 0,35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of the glove material 0,5 mm Breakthrough time >= 8 h 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. The selected protective gloves should satisfy the specifications of standards like EN 374. Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### Skin protection

Suitable protective clothing: Lab apron.

#### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: Insufficient ventilation: Particulate Respirators, Standard: 42 CFR Part 84 or DIN 143.

#### Environmental exposure controls

No special precautionary measures are necessary.

#### 9. Physical and chemical properties

#### Information on basic physical and chemical properties

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Physical state: Color:	liquid light yellow	
Odor:	hardly noticeable	
		Test method
Melting point/freezing point:	-12,4 °C	
Boiling point or initial boiling point and boiling range:	165 °C	
Lower explosion limits:	3 vol. %	
Upper explosion limits:	43 vol. %	
Flash point:	119 °C	DIN 51758
Auto-ignition temperature:	398 °C	DIN 51794
Decomposition temperature:	~260 °C	DCS

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pH-Value (at 20 °C):	8	DIN EN 1262		
Viscosity / kinematic:	not determined			
Water solubility:	completely miscible			
Solubility in other solvents				
not determined	SECTION 42: Easternish information			
Partition coefficient n-octanol/water: Vapor pressure:	SECTION 12: Ecological information 0,08 (CAS: 107-21-1) hPa			
(at 20 °C)	0,00 (0/10: 10/-21-1) 11 4			
Density (at 20 °C):	1,13 g/cm³	DIN 51757		
Relative vapour density:	not determined			
Other information				
Information with regard to physical haza	rd classes			
Explosive properties				
none	Not outtoining combustion			
Sustaining combustion: Self-ignition temperature	Not sustaining combustion			
Gas:	not determined			
Oxidizing properties				
none				
Other safety characteristics				
Evaporation rate:	not determined			
Solvent separation test: Solvent content:	not determined			
Solid content:	not determined not determined			
Sublimation point:	not determined			
Softening point:	not determined			
Pour point:	not determined			
Viscosity / dynamic:	not determined			
Flow time:	not determined			
10. Stability and reactivity				
Reactivity				
No information available.				
Chemical stability				
Stability:	Stable			
-	recommended conditions of storage, use and temp	erature.		
Possibility of hazardous reactions				
Hazardous reactions:	Will not occur			
No information available.				
Conditions to evoid				

### Conditions to avoid

storage temperature: < 260°C Protect against: UV-radiation/sunlight. heat.

### Incompatible materials

Materials to avoid: Oxidizing agents, strong. Acid.

### Hazardous decomposition products

Can be released in case of fire: Carbon monoxide, Carbon dioxide (CO2).

### 11. Toxicological information

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### Route(s) of Entry

Ingestion: May be harmful if swallowed. Inhalation: May be harmful if inhaled. Skin contact: May cause irritation. Eye contact: May cause irritation.

#### Information on toxicological effects

#### Toxicocinetics, metabolism and distribution

No data available.

#### Acute toxicity

Harmful if swallowed

#### **ATEmix calculated**

ATE (oral) 500,0 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components					
	Exposure route	Dose		Species	Source	Method
107-21-1	ethanediol; ethylene glycol					
		ATE 5 mg/kg	500			
		LD50 > mg/kg	>5000	Rabbit	RTECS	

#### Irritation and corrosivity

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

#### Sensitizing 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.

#### Specific target organ toxicity (STOT) - single exposure

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

#### Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (ethanediol; ethylene glycol)

- Carcinogenicity (OSHA): No
- No ingredient of this mixture is listed. No ingredient of this mixture is listed.
- Carcinogenicity (NTP): No ingredient of this mixture is listed.

#### Aspiration hazard

Carcinogenicity (IARC):

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

### Specific effects in experiment on an animal

No data available.

### Information on other hazards

### Endocrine disrupting properties

No data available.

### 12. Ecological information

### **Ecotoxicity**

The product has not been tested.

### Persistence and degradability

The product has not been tested.

### Bioaccumulative potential

No indication of bioaccumulation potential.

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#### Mobility in soil

No data available.

#### 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.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

## Other adverse effects

No data available.

#### Further information

Do not allow to enter into surface water or drains.

#### 13. Disposal considerations

### Waste treatment methods

#### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

#### RCRA Hazardous wastes (Resource Conservation and Recovery Act)

None

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

#### 14. Transport information

U.S. DOT 49 CFR 172.101				
Proper shipping name:	Not a hazardous material with respect to these transport regulations. && Not controlled under DOT			
Marine transport (IMDG)				
UN number or ID number:	No dangerous good in sense of this transport regulation.			
UN proper shipping name:	No dangerous good in sense of this transport regulation.			
Transport hazard class(es):	No dangerous good in sense of this transport regulation.			
Packing group:	No dangerous good in sense of this transport regulation.			
Air transport (ICAO-TI/IATA-DGR)				
UN number or ID number:	No dangerous good in sense of this transport regulation.			
UN proper shipping name:	No dangerous good in sense of this transport regulation.			
<u>Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.			
Packing group:	No dangerous good in sense of this transport regulation.			
Environmental hazards				
ENVIRONMENTALLY HAZARDOUS:	No			
Special precautions for user				
See section 8.				
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code				
not relevant				
15. Regulatory information				

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### U.S. Regulations

#### National Inventory TSCA

ethanediol; ethylene glycol listed in the TSCA inventory 8 (b): (x) active, ethanediol; ethylene glycol not listed under TSCA 12(b)

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### National regulatory information

SARA Section 304 CERCLA: Ethylene glycol (107-21-1): Reportable quantity = 5,000 (2270) lbs. (kg) SARA Section 311/312 Hazards: Ethylene glycol (107-21-1): Immediate (acute) health hazard, Delayed (chronic) health hazard SARA Section 313 Toxic release inventory: Ethylene glycol (107-21-1): De minimis limit = 1.0 %, Reportable threshold = Standard Clean Air Act Section 112(b):

Ethylene glycol (107-21-1)

### State Regulations

#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Ethylene glycol (ingested) (developmental), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

This preparation is hazardous in the sense of regulation 29 CFR Part 1910.1200.

#### 16. Other information

Hazardous Materials Identification System (HMIS)			
Health:	2		
Flammability:	1		
Physical Hazard:	0		
Personal Protection:	В		
NFPA Hazard Ratings			
Health:	2		
Flammability:	1		
Reactivity:	0		
Unique Hazard:	-		
Changes			
Revision date:	07/31/2023		
Revision No:	2,0		
Rev. 1,0; Initial release: 29,09.2020			
Rev. 2.0; 19.07.2023, Changes in chap	ter: 2-16		
Abbreviations and acronyms			
ACGIH:American Conference of Govern			
ASTM: American Society for Testing and Materials.			
ATE: acute toxicity estimate			
BCF: Bio concentration factor			
ECHA: European Chemicals Agency			
CAS: Chemical Abstracts Service			
CFR: Code of Federal Regulations DOT: Department of Transportation			
d: days			
EC50: Half maximal effective concentration			
EN: European Norm			
EPA: Environmental Protection Agency			
GHS: Globally Harmonized System of Classification and Labelling of Chemicals			
	h: hours		
HMIS: Hazardous Materials Identification System			
IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IBC: Intermediate Bulk Container			
IMDG: International Maritime Code for Dangerous Goods			



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IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent MARPOL: marine pollution NOAEL: No observed adverse effect level NOAEC: No observed adverse effect concentration NTP: National Toxicology Program N/A: not applicable NFPA: National Fire Protection Association **UN: United Nations** OECD: Organisation for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration PBT: Persistent bioaccumulative toxic RTECS: Registry of Toxic Effects of Chemical Substances REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals SARA: Superfund Amendments and Reauthorization Act STEL: short-term exposure limits **TSCA:** Toxic Substances Control Act TWA: time weighted average VOC: Volatile Organic Compounds Other data Classification according 29 CFR Part 1910.1200: - Classification procedure:

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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