

SAFETY DATA SHEET

US OSHA Hazard Communication Standard (29 CFR 1910.1200)
Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA)
and the Hazardous Products Regulation (HPR)

METALGUARD® E-5100

Low-Conductivity Coolant ≤100 µS

Version number: 1.0 Date: 10-September-2024 NGHS / English SDS Number: 160

SECTION 1: Identification

1.1 Product identifier

Trade name METALGUARD E-5100 Coolant

Product number E5100

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

Relevant identified uses Electric vehicle coolant Industrial use

Professional use Consumer uses

Uses advised against Do not use for other than recommended use

1.3 Details of the supplier of the safety data sheet

WEBA Technology 500 Cummings Center, Suite 6050 01915 Beverly United States

Telephone: +1 681-265-2314 e-mail: info@webacorp.com e-mail (competent person)

info@webacorp.com

1.4 Emergency telephone number

Emergency information service CHEMTREC: +1-703-527-3887 (INTERNATIONAL)

This number is only available during the following office hours: Mon-

Fri 09:00 - 17:00

Poison center		
Country	Name	Telephone
United States	CHEMTREC	+1-703-527-3887 (INTERNATIONAL) +1-800-424-9300 (NORTH AMERICA)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.10	acute toxicity (oral)	4	Acute Tox. 4	H302
A.7	reproductive toxicity	2	Repr. 2	H361
A.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of H-phrases: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- signal word Warning

- pictograms

GHS07, GHS08



- hazard statements

H302 Harmful if swallowed.

H361 Suspected of damaging fertility or the unborn child.

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.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.
P308+P313 If exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.

P330 Rinse mouth.
P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- hazardous ingredients for labelling

Contains: ethanediol; Methyl-1H-benzotriazole; 2,2'-oxybisethanol.

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

Endocrine disrupting properties

Contains an endocrine disruptor (ED) in a concentration of ≥ 0.1%. (Section 11 & 12).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture).

3.2 Mixtures

The product does not contain (other) ingredients which are classified according to present knowledge of the supplier and contribute to the classification of the product and hence require reporting in this section.

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes	Remarks
ethanediol	CAS No 107-21-1	50-<75	Acute Tox. 4 / H302 STOT RE 2 / H373 HNOC002	♦		
2,2'-oxybisethanol	CAS No 111-46-6	1-<2.5	Acute Tox. 4 / H302	(1)		

Consideration of other advice

In compliance with OSHA Hazard Communication Standard 29 CFR 1910.1200(i), the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a Trade Secret.

Date: 10-Sept-2024

Remarks

All the percentages given are percentages by weight unless stated otherwise. For full text of H-phrases: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician.

Following skin contact

Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.

Following eye contact

Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Following ingestion

Rinse mouth with water (only if the person is conscious). Induce vomiting when the affected person is not unconscious. Call a POISON CENTER/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

For specialist advice physicians should contact the poison center.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray; Alcohol resistant foam; Dry extinguishing powder; Carbon dioxide (CO2); Coordinate firefighting measures to the fire surroundings.

Unsuitable extinguishing media

Water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

During fire hazardous fumes/smoke could be produced: carbon monoxide (CO), carbon dioxide (CO2).

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

Special protective equipment for firefighters

Self-contained breathing apparatus (SCBA). Standard protective clothing for firefighters.

United States & Canada: en | SDS No: 160 WEBA Technology Page: 3 / 17

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases. Wear personal protective equipment/face protection.

Date: 10-Sept-2024

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomite, diatomaceous earth, acid binder, universal binder, sawdust).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- incompatible substances or mixtures

Oxidizing substances, acids.

Control of the effects

Protect against external exposure, such as

High temperatures. UV-radiation/sunlight. Frost.

Consideration of other advice

Store in a well-ventilated place. Keep container tightly closed. Do not use pressure to empty container or it may rupture with explosive force.

- packaging compatibilities

Keep only in original container.

7.3 Specific end use(s)

See section 1.2.

United States & Canada: en | SDS No: 160 WEBA Technology Page: 4 / 17

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupation	Occupational exposure limit values (Workplace Exposure Limits)								
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Notation	Source
US	ethylene glycol	107-21-1	TLV®				10	i, aerosol	ACGIH® 2024
US	ethylene glycol	107-21-1	TLV®	25		50		vap	ACGIH® 2024

Date: 10-Sept-2024

Notation

aerosol as aerosols inhalable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless

otherwise specified)

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified TWA

as vapors vap

Relevant DNELs/DMELs/PNECs and other threshold levels

Relevant DNELs of o	components of t	he mixture				
Name of substance	CAS No	End- point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
ethanediol	107-21-1	DNEL	35 mg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects
ethanediol	107-21-1	DNEL	106 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
ethanediol	107-21-1	DNEL	7 mg/m³	human, inhalatory	consumer (private households)	chronic - local ef- fects
ethanediol	107-21-1	DNEL	53 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	44 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	60 mg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects
2,2'-oxybisethanol	111-46-6	DNEL	43 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	12 mg/m³	human, inhalatory	consumer (private households)	chronic - systemic effects
2,2'-oxybisethanol	111-46-6	DNEL	12 mg/m³	human, inhalatory	consumer (private households)	chronic - local ef- fects
2,2'-oxybisethanol	111-46-6	DNEL	21 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Methyl-1H-benzo- triazole	29385-43-1	DNEL	0.25 mg/kg bw/day	human, oral	consumer (private households)	acute - systemic ef- fects

Relevant PNECs of	components					
Name of substance	CAS No	End- point	Threshold level	Organism	Environmental compartment	Exposure time
ethanediol	107-21-1	PNEC	10 ^{mg} / _I	aquatic organisms	water	intermittent release
ethanediol	107-21-1	PNEC	10 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
ethanediol	107-21-1	PNEC	1 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
ethanediol	107-21-1	PNEC	199.5 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
ethanediol	107-21-1	PNEC	37 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
ethanediol	107-21-1	PNEC	3.7 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
ethanediol	107-21-1	PNEC	1.53 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	10 ^{mg} / _I	aquatic organisms	water	intermittent release
2,2'-oxybisethanol	111-46-6	PNEC	10 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	1 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	199.5 ^{mg} / _I	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	20.9 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	2.09 ^{mg} / _{kg}	aquatic organisms	marine sediment	short-term (single instance)
2,2'-oxybisethanol	111-46-6	PNEC	1.53 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)
Methyl-1H-benzo- triazole	29385-43-1	PNEC	0.086 ^{mg} / _I	aquatic organisms	water	intermittent release
Methyl-1H-benzo- triazole	29385-43-1	PNEC	0.008 ^{mg} / _I	aquatic organisms	freshwater	short-term (single instance)
Methyl-1H-benzo-	29385-43-1	PNEC	20 ^{µg} / _I	aquatic organisms	marine water	short-term (single

terrestrial organ-

isms

soil

Date: 10-Sept-2024

instance)

short-term (single

instance)

8.2 **Exposure controls**

Name of

substance

triazole

triazole

triazole

triazole

Methyl-1H-benzo-

triazole

Appropriate engineering controls

General ventilation. Provide eyewash stations and safety showers at the workplace.

PNEC

18.7 ^{µg}/_{ka}

Individual protection measures (personal protective equipment)

29385-43-1

Eye/face protection



Use safety goggle with side protection

Skin protection



Chemical protective clothing.

Hand protection



Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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 selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

type of material

PVC: polyvinyl chloride, Nitrile rubber, Polychloroprene

- material thickness

Use gloves with a minimum material thickness: ≥ 0.11 mm.

- breakthrough time of the glove material

Use gloves with a minimum breakthrough time of the glove material: >480 minutes (permeation: level 6).

- other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Type: ABEK-P2 (combined filters against gases, vapors and particles, color code: Brown/Grey/Yellow/Green/White). Observe the OSHA respirator regulations cited in 29 CFR 1910.134 and use NIOSH/MSHA approved respirators.

Environmental exposure controls

Take appropriate precautions to avoid uncontrolled release into the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	clear
Particle	not relevant (liquid)
Odor	mild

Other safety parameters

pH (value)	5.7-6.3
Melting point/freezing point	-36 °C -34 °F
Initial boiling point and boiling range	109 °C 229 °F
Flash point	not applicable
Evaporation rate	not determined
Flammability (solid, gas)	not relevant, (fluid)
Explosive limits	LEL: UEL: not determined
Vapor pressure	2.3 kPa at 20 °C 2.3 kPa at 68 °F
	calculated value, referring to a component of the mixture
Density	not determined
Vapor density	information on this property is not available
Relative density	1.070-1.080 (water = 1)

Solubility

- water solubility	miscible in any proportion	
--------------------	----------------------------	--

Auto-ignition temperature 372 °C 701.6 °F	
(auto-ignit	tion temperature (liquids and gases)) ed value, referring to a component of the mixture
Decomposition temperature no data a	available

Viscosity	not determined
- kinematic viscosity	not determined

Explosive properties	none
Oxidizing properties	none

9.2 Other information

Miscibility	Completely miscible with water.
Temperature class (USA, acc. to NEC 500)	T2 (maximum permissible surface temperature on the equipment: 300°C)

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Incompatible materials.

10.5 Incompatible materials

Acids, oxidizers.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Harmful if swallowed.

- acute toxicity estimate (ATE)

Exposure route	ATE
Oral	969 ^{mg} / _{kg}

Acute toxicity estimate (ATE) of components						
Name of substance	CAS No	Exposure route	ATE			
ethanediol	107-21-1	oral	500 ^{mg} / _{kg}			
2,2'-oxybisethanol	111-46-6	oral	500 ^{mg} / _{kg}			
Methyl-1H-benzotriazole	29385-43-1	oral	720 ^{mg} / _{kg}			

Acute toxicity of components

Name of substance

ethanediol

ethanediol

2,2'-oxybisethanol

Methyl-1H-benzotriazole

Methyl-1H-benzotriazole

Endpoint	Value	Species
LD50	7,712 ^{mg} / _{kg}	rat
LD50	>3.500 ^{mg} / _{kg}	mouse

13,300 mg/kg

720 ^{mg}/_{kg}

>2,000 ^{mg}/_{kq}

Date: 10-Sept-2024

rabbit

rat

rabbit

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

CAS No

107-21-1

107-21-1

111-46-6

29385-43-1

29385-43-1

Exposure route

oral

dermal

dermal

oral

dermal

LD50

LD50

LD50

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Suspected of damaging the unborn child. Suspected of damaging fertility.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

Endocrine disrupting properties

Contains an endocrine disruptor (ED) in a concentration of \geq 0.1%.

Endocrine Disruptor lists								
Name of substance CAS No Endocrine disruptor for the environment human health								
1,2,3-Benzotriazole	95-14-7		yes	List II				

Legend

List II Substances under evaluation for endocrine disruption under an EU legislation

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

United States & Canada: en | SDS No: 160 WEBA Technology Page: 10 / 17

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
ethanediol	107-21-1	ErC50	<13,000 ^{mg} / _I	algae	96 h
ethanediol	107-21-1	LC50	53,000 ^{mg} / _I	fish	96 h
ethanediol	107-21-1	EC50	>100 ^{mg} / _I	aquatic invertebrates	48 h
ethanediol	107-21-1	NOEC	>100 ^{mg} / _l	algae	72 h
2,2'-oxybisethanol	111-46-6	EC50	>10,000 ^{mg} / _l	aquatic invertebrates	24 h
2,2'-oxybisethanol	111-46-6	LC50	75,222 ^{mg} / _I	fish	96 h
2,2'-oxybisethanol	111-46-6	NOEC	>100 ^{mg} / _l	algae	72 h
Methyl-1H-benzotriazole	29385-43-1	LC50	240 ^{mg} / _I	fish	24 h
Methyl-1H-benzotriazole	29385-43-1	EC50	15.8 ^{mg} / _l	aquatic invertebrates	48 h
Methyl-1H-benzotriazole	29385-43-1	ErC50	75 ^{mg} / _I	algae	72 h
Methyl-1H-benzotriazole	29385-43-1	NOEC	30 ^{mg} / _l	fish	96 h
Methyl-1H-benzotriazole	29385-43-1	growth (EbCx) 10%	8.56 ^{mg} / _I	aquatic invertebrates	48 h
Methyl-1H-benzotriazole	29385-43-1	growth rate (Er- Cx) 10%	1.18 ^{mg} / _l	algae	72 h

Aquatic toxicity (chronic) of components of the mixture						
Name of substance	CAS No	Endpoint	Value	Species	Exposure time	
ethanediol	107-21-1	EC50	>15,000 ^{mg} / _l	aquatic invertebrates	21 d	
ethanediol	107-21-1	LC50	>1,500 ^{mg} / _I	fish	28 d	
ethanediol	107-21-1	NOEC	>40 ^{mg} / _I	fish	28 d	
ethanediol	107-21-1	growth (EbCx) 20%	>1,995 ^{mg} / _l	microorganisms	30 min	
2,2'-oxybisethanol	111-46-6	LC50	>1,500 ^{mg} / _I	fish	28 d	
2,2'-oxybisethanol	111-46-6	EC50	33,911 ^{mg} / _I	aquatic invertebrates	21 d	
2,2'-oxybisethanol	111-46-6	NOEC	>40 ^{mg} / _I	fish	28 d	
2,2'-oxybisethanol	111-46-6	growth (EbCx) 20%	>1,995 ^{mg} / _l	microorganisms	30 min	
Methyl-1H-benzotriazole	29385-43-1	LC50	240 ^{mg} / _I	fish	24 h	
Methyl-1H-benzotriazole	29385-43-1	EC50	>37.6 ^{mg} / _I	aquatic invertebrates	21 d	
Methyl-1H-benzotriazole	29385-43-1	NOEC	18.4 ^{mg} / _l	aquatic invertebrates	21 d	
Methyl-1H-benzotriazole	29385-43-1	LOEC	37.6 ^{mg} / _l	aquatic invertebrates	21 d	
Methyl-1H-benzotriazole	29385-43-1	growth (EbCx) 10%	0.97 ^{mg} / _l	aquatic invertebrates	21 d	

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0.1%.

12.6 **Endocrine disrupting properties**

Contains an endocrine disruptor (ED) in a concentration of ≥ 0.1%.

Endocrine Disruptor lists								
Name of substance	CAS No	Endocrine dis- ruptor for human health	Endocrine dis- ruptor for the en- vironment	Listed in				
1,2,3-Benzotriazole	95-14-7		yes	List II				

Date: 10-Sept-2024

Legend

List II Substances under evaluation for endocrine disruption under an EU legislation

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. Do not use pressure to empty container or it may rupture with explosive force.

Please consider the relevant national or regional provisions. Waste shall be separated into categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 **UN number**

DOT NOT REGULATED IMDG-Code **NOT REGULATED NOT REGULATED** ICAO-TI

14.2 Special precautions for user

No data available.

Transport in bulk according to IMO instruments

Additional information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT). In bulk tank trucks or rail - additional information

RQ. UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, DOT Particulars in the shipper's declaration

LIQUID, N.O.S, (ETHYLENE GLYCOL), 9 III

There is no additional information.

Danger label(s) 9, fish and tree



Special provisions (SP) 8, 146, 173, 335, 441, IB3, T4, TP1, TP29

ERG No 171

CANADA Transport information - national regulations - additional information (UN RTDG), bulk tank

UN number 3082 Class 9

Environmental hazards yes (hazardous to the aquatic environment)

Packing group

Danger label(s) 9, fish and tree



trucks or rail.

Special provisions (SP) 274, 331, 335, 375 (UN RTDG)

Excepted quantities (EQ) E1 (UN RTDG)

Limited quantities (LQ) 5 L (UN RTDG)

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

Date: 10-Sept-2024

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

None of the ingredients are listed.

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings						
Name acc. to inventory CAS No Remarks Effective date						
ethylene glycol	107-21-1		1987-01-01			

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name acc. to inventory	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
ethylene glycol	107-21-1		3	5000 (2270)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

Clean Air Act

None of the ingredients are listed.

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name acc. to inventory	CAS No	Functionality	Authoritative Lists
			OEHHA RELs Prop 65
Glycol ethers			CA TACs

- Toxic or Hazardous Substance List (MA-TURA)

Name acc. to inventory	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Ethylene glycol	107-21-1				1.0 %
Glycol Ethers		1022			1.0 %

- Hazardous Substances List (MN-ERTK)

Name acc. to inventory	CAS No	References	Remarks
Ethylene glycol	107-21-1	А	particulate vapor
Diethylene glycol	111-46-6	I	

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA

- Hazardous Substance List (NJ-RTK)

Name acc. to inventory	CAS No	Remarks	Classifications
ethylene glycol (1,2-ethanediol)	107-21-1		
glycol, ethers			

- Hazardous Substance List (Chapter 323) (PA-RTK)

Name acc. to inventory	CAS No	Classification
1,2-ETHANEDIOL	107-21-1	E
ETHANOL, 2,2'-OXYBIS-	111-46-6	
GLYCOL ETHERS		E

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

Name acc. to inventory	CAS No	References
Ethylene glycol	107-21-1	T, F
Diethylene glycol	111-46-6	F

Legend

F Flammability (NFPA®)

Legend

T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethylene glycol (ethanediol)	107-21-1		developmental

Date: 10-Sept-2024

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	1	irritation or minor reversible injury possible
Flammability	0	material that will not burn under typical fire conditions
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	0	material that will not burn under typical fire conditions
Health	1	material that, under emergency conditions, can cause significant irritation
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National regulations (Canada)

Domestic Substances List (DSL)

All ingredients are listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
49 CFR US DOT	49 CFR U.S. Department of Transportation	
ACGIH®	American Conference of Governmental Industrial Hygienists	
ACGIH® 2024	From ACGIH®, 2024 TLVs® and BEIs® Book. Copyright 2024. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement	
Acute Tox.	Acute toxicity	
ATE	Acute Toxicity Estimate	

United States & Canada: en | SDS No: 160 WEBA Technology Page: 15/17

Abbr.	Descriptions of used abbreviations
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DEP CODE	Department of Environmental Protection Code
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
DOT	Department of Transportation (USA)
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
ED	Endocrine disruptor
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
ERG No	Emergency Response Guidebook - Number
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HHS	Higher hazard substance
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LHS	Lower hazard substance
LOEC	Lowest Observed Effect Concentration
NFPA®	National Fire Protection Association (United States)
NOEC	No Observed Effect Concentration
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
Repr.	Reproductive toxicity
RTECS	Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TLV®	Threshold Limit Values
TWA	Time-weighted average
UEL	Upper explosion limit (UEL)
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for air transport (IATA).

Date: 10-Sept-2024

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Issuing Date: 10-September-2024

Prior Revision Date: None

Revision Note: No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**** End of Safety Data Sheet ****

United States & Canada: en | SDS No: 160 WEBA Technology Page: 17 / 17