Valvoline...

SAFETY DATA SHEET

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : ZEREX™ ORIGINAL

Antifreeze Coolant

Product code : ZX001

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

Recommended use : Coolant and antifreeze.

Details of the supplier of the safety data sheet

Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA) 1-800-TEAMVAL (1-800-832-6825)

SDS@valvoline.com

Emergency telephone number

1-800-VALVOLINE (1-800-825-8654)

Regulatory Information Number 1-800-TEAMVAL (1-800-832-6825)

Product Information

1-800-TEAMVAL (1-800-832-6825)

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

Reproductive toxicity : Category 1B

Specific target organ toxicity - repeated exposure (Oral)

: Category 2 (Kidney, Liver)

GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : Harmful if swallowed.

May damage fertility or the unborn child.



ZEREX™ ORIGINAL Antifreeze Coolant

Revision Date: 11/04/2021 Version: 1.6 Print Date: 01/21/2022

May cause damage to organs (Kidney, Liver) through

prolonged or repeated exposure if swallowed.

Precautionary Statements

: Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and

understood.

Do not breathe mist or vapors. Wash skin thoroughly after handling.

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

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

Response:

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell. Rinse mouth.

IF exposed or concerned: Get medical advice/ attention.

Storage:

Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

: Mixture Substance / Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ETHYLENE GLYCOL	107-21-1	Acute Tox. 4; H302	>=90.00 - <=
			100.00
		STOT RE 2; H373	
DIPOTASSIUM PHOSPHATE	7758-11-4	Acute Tox. 3; H311	>=0.50 - < 1.00
SODIUM BORATE	1303-96-4	Eye Irrit. 2A; H319	>=0.10 - < 0.50
DECAHYDRATE			
		Repr. 1B; H360	

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

Valvoline...

SAFETY DATA SHEET

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Induce vomiting immediately and call a physician.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

: Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnia, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a

mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol

intoxication is severe metabolic acidosis.

Harmful if swallowed.

May damage fertility or the unborn child.

May cause damage to organs through prolonged or repeated

exposure if swallowed.

No symptoms known or expected.

Notes to physician

: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

No hazards which require special first aid measures.

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

Specific extinguishing

methods

:

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Valvoline,

SAFETY DATA SHEET

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control Basis parameters / Permissible concentration	
ETHYLENE GLYCOL	107-21-1	TWA	25 ppm Vapour	ACGIH
		STEL	50 ppm Vapour	ACGIH
		STEL	10 mg/m3 Inhalable fraction, Aerosol only	ACGIH
		С	50 ppm 125 mg/m3	OSHA P0
		С	40 ppm 100 mg/m3 Vapour	CAL PEL
SODIUM BORATE DECAHYDRATE	1303-96-4	TWA	5 mg/m3	NIOSH REL
		TWA	10 mg/m3	OSHA P0
		PEL	5 mg/m3	CAL PEL
		TWA	2 mg/m3 Inhalable particulate matter	ACGIH

Valvoline,

SAFETY DATA SHEET

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

	(Borate)	
STEL	6 mg/m3 Inhalable particulate matter	ACGIH
	(Borate)	

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : green

Odour : No data available

Odour Threshold : No data available

pH : 9 - < 11

Melting point/freezing point : No data available

Boiling point/boiling range : 387.7 °F / 197.6 °C

(1,013.232 hPa)

Calculated Phase Transition Liquid/Gas

Flash point : $> 232 \,^{\circ}\text{F} / > 111 \,^{\circ}\text{C}$

Evaporation rate : No data available

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

Flammability (solid, gas) : No data available

Self-ignition : No data available

Upper explosion limit / Upper

Valvoline...

flammability limit

: 15.3 %(V)

GLP: Calculated Explosive Limit

Lower explosion limit / Lower :

flammability limit

3.2 %(V)

GLP: Calculated Explosive Limit

Vapour pressure : 0.12265 hPa (77 °F / 25 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 1.1205 g/cm3 (60.1 °F / 15.6 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous

reactions

: No decomposition if stored and applied as directed.

Conditions to avoid : No data available

Incompatible materials : Aldehydes

Valvoline,

SAFETY DATA SHEET

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

Alkali metals

Alkaline earth metals

Strong acids strong alkalis

Strong oxidizing agents Sulphur compounds

Hazardous decomposition

products No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 522.35 mg/kg

Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

ETHYLENE GLYCOL:

Acute oral toxicity : LD0 (Human): estimated 1.56 g/kg

Assessment: The component/mixture is moderately toxic after

single ingestion.

Acute inhalation toxicity : LC50 (Rat): 10.9 mg/l

Exposure time: 1 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 9,530 mg/kg

Acute toxicity (other routes of :

administration)

LD50 (Rat): 5,010 mg/kg

Application Route: Intraperitoneal

LD50 (Rat): 3,260 mg/kg Application Route: Intravenous

DIPOTASSIUM PHOSPHATE:

Acute oral toxicity : LD50 (Rat): > 500 mg/kg

LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 420

Assessment: The substance or mixture has no acute oral



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

toxicity

Acute dermal toxicity : LD50 (Rabbit): > 300 mg/kg

LD50 (Rabbit): > 5,000 mg/kg Method: OECD Test Guideline 402

SODIUM BORATE DECAHYDRATE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Assessment: The substance or mixture has no acute oral

toxicity

Remarks: The toxicological data has been taken from

products of similar composition. No mortality observed at this dose.

Acute inhalation toxicity : LC50 (Rat): > 2.04 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute

inhalation toxicity

Remarks: The toxicological data has been taken from

products of similar composition. No mortality observed at this dose.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

GLP: yes

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: The toxicological data has been taken from

products of similar composition. No mortality observed at this dose.

Skin corrosion/irritation

Not classified based on available information.

Components:

ETHYLENE GLYCOL:

Species : Rabbit

Result : No skin irritation

DIPOTASSIUM PHOSPHATE:

Species : Rabbit

Result : Slight, transient irritation

SODIUM BORATE DECAHYDRATE:Species : Rabb

Result : Slight, transient irritation



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

Serious eye damage/eye irritation

Not classified based on available information.

Components:

ETHYLENE GLYCOL:

Result : Slight, transient irritation

DIPOTASSIUM PHOSPHATE:

Species : Rabbit

Result : Slight, transient irritation

SODIUM BORATE DECAHYDRATE:

Species : Rabbit

Result : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

ETHYLENE GLYCOL:

Test Type : Maximisation Test

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

DIPOTASSIUM PHOSPHATE:

Test Type : Local lymph node assay

Species : Mouse

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 429

Remarks : The toxicological data has been taken from products of similar

composition.

SODIUM BORATE DECAHYDRATE:

Test Type : Buehler Test Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Remarks : The toxicological data has been taken from products of similar

composition.

Germ cell mutagenicity

Not classified based on available information.

Components:

ETHYLENE GLYCOL:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

DIPOTASSIUM PHOSPHATE:



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: The toxicological data has been taken from

products of similar composition.

Carcinogenicity

Not classified based on available information.

IARC Group 2A: Probably carcinogenic to humans

SODIUM NITRATÉ 7631-99-4

(nitrate (ingested) under conditions that result in endogenous nitrosation)

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

May damage fertility or the unborn child.

Components:

SODIUM BORATE DECAHYDRATE:

Reproductive toxicity - : Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if

swallowed.

Components: ETHYLENE GLYCOL:

Exposure routes : Ingestion
Target Organs : Kidney, Liver

Assessment : May cause damage to organs through prolonged or repeated

exposure.

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

Components:

ETHYLENE GLYCOL:

Ingestion : Target Organs: Kidney

Further information

Product:

Remarks : No data available

Valvoline...

SAFETY DATA SHEET

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

: Not classified based on available information.

Long-term (chronic) aquatic

hazard

: Not classified based on available information.

Components:

ETHYLENE GLYCOL:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 27,540 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 8,050 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 6,500 -

13,000 mg/l

End point: Growth inhibition Exposure time: 7 Days

Toxicity to fish (Chronic

toxicity)

: NOEC (Pimephales promelas (fathead minnow)): 32,000 mg/l

Exposure time: 7 d

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 24,000 mg/l

Exposure time: 7 d

Ecotoxicology Assessment

Short-term (acute) aquatic

hazard

: Not classified based on available information.

Long-term (chronic) aquatic

hazard

: Not classified based on available information.

DIPOTASSIUM PHOSPHATE:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h Test Type: semi-static test

Method: OECD Test Guideline 203

SAFETY DATA SHEET ZEREX™ ORIGINAL Antifreeze Coolant



Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

Remarks: The toxicological data has been taken from

products of similar composition.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: The toxicological data has been taken from

products of similar composition.

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: The toxicological data has been taken from

products of similar composition.

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: The toxicological data has been taken from

products of similar composition.

SODIUM BORATE DECAHYDRATE:

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

Remarks: The toxicological data has been taken from

products of similar composition.

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Daphnia magna (Water flea)): 133 mg/l

Exposure time: 48 h Test Type: static test

Remarks: The toxicological data has been taken from

products of similar composition.

Toxicity to algae : NOEC (Dunaliella tertiolecta (marine algae)): 50 mg/l

End point: Growth inhibition Exposure time: 240 h Test Type: static test

Remarks: Information refers to the main component.

Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): 13 mg/l

Exposure time: 4 d

Remarks: Information refers to the main component.

Toxicity to daphnia and other

aquatic invertebrates

: NOEC (Aquatic invertebrates): 16.6 mg/l

Exposure time: 28 d

SAFETY DATA SHEET ZEREX™ ORIGINAL Antifreeze Coolant



ZEREX ... ORIGINAL AIIIIIIeeze Coolaiii

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

(Chronic toxicity) Test Type: flow-through test

Remarks: Information refers to the main component.

Persistence and degradability

Components:

ETHYLENE GLYCOL:

Biodegradability : Result: Readily biodegradable. Biodegradation: 90 - 100 %

Exposure time: 10 d

Method: OECD Test Guideline 301

DIPOTASSIUM PHOSPHATE:

Biodegradability : Remarks: The methods for determining biodegradability are

not applicable to inorganic substances.

No data available

Bioaccumulative potential

Components:

ETHYLENE GLYCOL:

Bioaccumulation : Species: Crayfish (Procambarus)

Bioconcentration factor (BCF): 0.27

Exposure time: 61 d Concentration: 1000 mg/l Method: Flow through

Partition coefficient: n-

octanol/water

: log Pow: -1.36

No data available
Mobility in soil
Components:
No data available
Other adverse effects

No data available

Product:

Remarks

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological

information

: No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Valvoline...

ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

General advice : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

CFR ROAD

Not regulated as a dangerous good

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
METHANOL	67-56-1	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

Valvoline...

ZEREX™ ORIGINAL Antifreeze Coolant

Revision Date: 11/04/2021 Version: 1.6 Print Date: 01/21/2022

SARA 311/312 Hazards Acute toxicity (any route of exposure)

Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 The following components are subject to reporting levels

established by SARA Title III, Section 313:

ETHYLENE 107-21-1 >= 90 - <= 100 %

GLYCOL

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

> ETHYLENE GLYCOL 107-21-1 >= 90 - <= 100 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

ETHYLENE GLYCOL 107-21-1 >= 90 - <= 100 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

> SODIUM HYDROXIDE 1310-73-2 >= 0 - < 0.1 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

> SODIUM HYDROXIDE 1310-73-2 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

This product does not contain any priority pollutants related to the U.S. Clean Water Act

California Prop. 65

↑ WARNING: Reproductive Harm - www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TCSI : Not in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL All components of this product are on the Canadian DSL

ENCS Not in compliance with the inventory

ISHL Not in compliance with the inventory



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

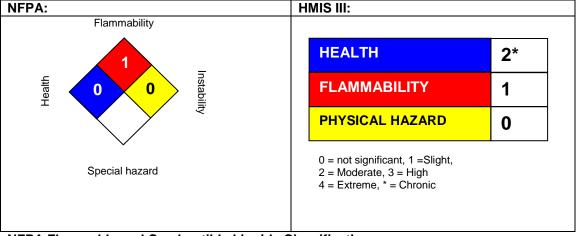
Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

Internal information: 000000139197



NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIB

Full text of H-Statements

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H319 Causes serious eye irritation.



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

H360 May damage fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure

if swallowed.

Sources of key data used to compile the Safety Data Sheet Valvoline internal data including own and sponsored test reports The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Valvoline's Environmental Health and Safety Department (1-800-VALVOLINE).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH: American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit P-Statement : Precautionary Statement PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value



ZEREX™ ORIGINAL Antifreeze Coolant

Version: 1.6 Revision Date: 11/04/2021 Print Date: 01/21/2022

TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health OSHA: Occupational Safety and Health Administration

PMRA : Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System