Valvoline:	Page: 1
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

GHS classification in accordance with the Hazardous Products Regulations

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline Professional Series WATER PUMP LUBE &

PROTECTANT

WATER PUMP LUBE & PROTR

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE (1-800-825-8654)
Valvoline Canada Corp	
905 Winston Churchill Blvd	
Mississauga ON L5J 4P2	Regulatory Information Number
Canada	1-800-TEAMVAL
1-800-TEAMVAL	
	Product Information
	1-800-TEAMVAL

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

The for Gadees contract of a mindue

Precautionary statements : **Prevention:**

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

Valvoline:	Page: 1
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

GHS classification in accordance with the Hazardous Products Regulations

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline Professional Series COOLING SYSTEM

CLEANER

Details of the supplier of the safety data	Emergency telephone number
sheet	1-800-VALVOLINE (1-800-825-8654)
Valvoline Canada Corp	
905 Winston Churchill Blvd	
Mississauga ON L5J 4P2	Regulatory Information Number
Canada	1-800-TEAMVAL (1-800-832-6825)
1-800-TEAMVAL (1-800-832-6825)	, , ,
, ,	Product Information
	1-800-TEAMVAL (1-800-832-6825)
	,

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Specific target organ toxicity

- repeated exposure

(Inhalation)

: Category 2 (Respiratory Tract)

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H373 May cause damage to organs (Respiratory Tract) through

prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Response:

P314 Get medical advice/ attention if you feel unwell.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Valvoline:	Page: 2
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

nazaraeae cempenenc			
Chemical name	CAS-No.	Classification	Concentration (%)
ETHYLENEDIAMINETETRAACE	64-02-8	Acute Tox. 4; H302	>=5.00 - < 10.00
TIC ACID, TETRASODIUM SALT			
		Acute Tox. 4; H332	
		E . I	
		Eye Irrit. 2A; H319	
		STOT DE 2: H373	
		3101 KL 2, 11373	
		Eye Irrit. 2A; H319 STOT RE 2; H373	

SECTION 4. FIRST AID MEASURES

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 breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is

recommended that exposed areas be cleaned by washing

with soap and water.

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

Remove contact lenses. Protect unharmed eye.

If eye irritation persists, consult a specialist.

If swallowed : Obtain medical attention.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

Valvoline:	Page: 3
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

delayed the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough

lung edema (fluid buildup in the lung tissue)

Difficulty in breathing

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

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

: Ammonia toxic fumes

Nitrogen oxides (NOx)

carbon dioxide and carbon monoxide

Specific extinguishing

methods

:

Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

: Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Valvoline:	Page: 4
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

emergency procedures

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

: Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

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

Do not smoke.

Container hazardous when empty.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

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.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or

apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-

proof safety goggles if material could be misted or splashed

Valvoline:	Page: 5
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

into eyes.

Skin and body protection : Wear as appropriate:

Impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : Average 9.0

Melting point/freezing point : No data available

Boiling point/boiling range : 212 °F / 100 °C

(1,013.333333 hPa)

Calculated Phase Transition Liquid/Gas

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 23.3333333 hPa (20 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : No data available

Density : 1.045 g/cm3

Solubility(ies)

Valvoline:	Page: 6
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : 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 : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : None known.

Incompatible materials : aluminum

Copper Copper alloys Nickel

Oxidizing agents

reactive metals such as aluminum and magnesium

steel

Strong bases

strong mineral acids

Zinc

Hazardous decomposition

products

carbon dioxide and carbon monoxide

Nitrogen oxides (NOx)

toxic fumes Ammonia

Valvoline:	Page: 7
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT: Acute oral toxicity : LD50 (Rat, female): 1,780 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1 - 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Information given is based on data obtained from

similar substances.

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Result: Severely irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Valvoline:	Page: 8
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Exposure routes: Inhalation
Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life

with long lasting effects.

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Toxicity to fish : LC50 (Bluegill (Lepomis macrochirus)): 792 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 140 mg/l

Exposure time: 48 h

Remarks: Information given is based on data obtained from

similar substances.

Valvoline:	F	Page: 9
SAFETY DATA SHEET	Revision Date: 04/0	5/2018
	Print Date: 4/1	7/2018
	SDS Number: R02	296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version	on: 1.1
882517		

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

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): >= 25.7 mg/l

Exposure time: 35 d

Test Type: flow-through test Method: OECD Test Guideline 210

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 25 mg/l

Exposure time: 21 d Test Type: semi-static test

Remarks: Information given is based on data obtained from

similar substances.

Persistence and degradability

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT: Biodegradability : Result: Not readily biodegradable.

Biodegradation: < 10 % Exposure time: 28 d

Method: OECD Test Guideline 301E

Biodegradation: 90 - 100 %

Exposure time: 72 d

Method: OECD Test Guideline 301E

No data available

Bioaccumulative potential

Components:

ETHYLENEDIAMINETETRAACETIC ACID, TETRASODIUM SALT:

Partition coefficient: n- : log Pow: < 3

octanol/water

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

No data available **Product:**

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

Valvoline:	Page: 10
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE
		CLASS	HAZARDS	GROUP	POLLUTANT /
					LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods	

CFR_RAIL_C

Not dangerous goods	

U.S. DOT - INLAND WATERWAYS

Not dangerous goods	

TDG_ROAD_C

Not dangerous goods

TDG RAIL C

Not dangerous goods

Valvoline:	Page: 11
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no	

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

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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

DSL : All components of this product are on the Canadian DSL

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

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

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

Valvoline:	Page: 12
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

TSCA : On TSCA Inventory

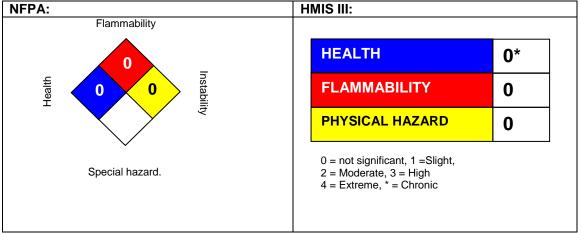
Inventories

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

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 04/05/2018



NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure

if inhaled.

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.

Valvoline:	Page: 13
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

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 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

Valvoline:	Page: 14
SAFETY DATA SHEET	Revision Date: 04/05/2018
	Print Date: 4/17/2018
	SDS Number: R0296911
Valvoline Professional Series COOLING SYSTEM CLEANER	Version: 1.1
882517	

RTK : Right to Know WHMIS : Workplace Hazardous Materials Information System

Valvoline:	Page: 2
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

nazaraous components			
Chemical name	CAS-No.	Classification	Concentration (%)
SODIUM NITRATE	7631-99-4	Ox. Sol. 3; H272	>=1.00 - < 5.00
		1; Eye Irrit. 2A; H319	
SODIUM MERCAPTOBENZOTHIAZOLE	2492-26-4	Met. Corr. 1; H290	>=1.00 - < 3.00
MENCAP TOBENZOTTIAZOLE		Skin Corr. 1C; H314	
		Eye Dam. 1; H318	
		Skin Sens. 1; H317	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Valvoline:	Page: 3
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

If inhaled : If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: Overexposure to this product (or a component) may cause methemoglobinemia, which in sufficient concentration causes cyanosis. Severe cyanosis may require intravenous injection of methylene blue. Methylene blue is contraindicated if the patient has confirmed or suspected glucose-6-phosphate dehydrogenase deficiency.

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

Cough

cyanosis (causes blue coloring of the skin and nails from lack

of oxygen)

methemoglobinemia (blood abnormality which causes a blue

coloring to the skin)

Convulsions

Difficulty in breathing Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray

Valvoline:	Page: 4
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

Carbon dioxide (CO2)

Dry chemical

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

: Nitrogen oxides (NOx)

carbon dioxide and carbon monoxide

Oxides of phosphorus potassium oxide Sulphur oxides

nitrogen oxides (NOx)

Specific extinguishing

methods

: Product is compatible with standard fire-fighting agents.

: Fire residues and contaminated fire extinguishing water must Further information

be disposed of in accordance with local regulations.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

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 : Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Valvoline:	Page: 5
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

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

Do not smoke.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Container hazardous when empty.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

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.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide sufficient mechanical (general and/or local exhaust)

ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or

apparent adverse effects.

Personal protective equipment

Respiratory protection : Respiratory protection is not required under normal conditions

of use.

Hand protection

Material : neoprene

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for

exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:

Impervious clothing

Safety shoes

Choose body protection according to the amount and

Valvoline:	Page: 6
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Odour : No data available

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Boiling point/boiling range : 212 °F / 100 °C

(1,013.333333 hPa)

Calculated Phase Transition Liquid/Gas

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : 32 hPa (25 °C)

Calculated Vapor Pressure

Relative vapour density : No data available

Relative density : 1.036 (60.00 °F)

Density : 1.036 g/cm3 (60.00 °F)

Solubility(ies)

Water solubility : completely soluble

Valvoline:	Page: 7
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : excessive heat

Exposure to moisture

Incompatible materials : Combustible material

Heavy metals Organic materials Powdered metals Reducing agents Strong acids

Strong oxidizing agents

water

Hazardous decomposition

products

May form:

carbon dioxide and carbon monoxide

Nitrogen oxides (NOx)

Sulphur oxides nitrogen oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

Valvoline:	Page: 8
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

exposure Skin contact

Eye Contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

SODIUM NITRATE:

Acute oral toxicity : LD50 (Rat): ca. 3,430 mg/kg

Method: OECD Test Guideline 401

SODIUM MERCAPTOBENZOTHIAZOLE:

Acute oral toxicity : LD50 (Rat): 2,100 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 6.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 7,940 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

SODIUM NITRATE: Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Remarks: Information given is based on data obtained from similar substances.

SODIUM MERCAPTOBENZOTHIAZOLE:

Species: Rabbit

Result: Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes

serious eye irritation.

Components:

SODIUM NITRATE: Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

Valvoline:	Page: 9
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

SODIUM MERCAPTOBENZOTHIAZOLE:

Species: Rabbit Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:

SODIUM MERCAPTOBENZOTHIAZOLE:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: May cause sensitisation by skin contact.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

SODIUM MERCAPTOBENZOTHIAZOLE:

Genotoxicity in vitro : Test Type: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Valvoline:	Page: 10
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life

with long lasting effects.

Components:

SODIUM NITRATE:

Toxicity to fish : LC50 (Rainbow trout, donaldson trout (Oncorhynchus

mykiss)): 1,355 - 2,063 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

Toxicity to daphnia and other

aquatic invertebrates

: LC50 (Water flea (Daphnia magna)): 3,581 mg/l

Exposure time: 48 h Method: Static Remarks: Mortality

SODIUM MERCAPTOBENZOTHIAZOLE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.73 mg/l

Exposure time: 96 h
Test Type: flow-through test

Method: OECD Test Guideline 203

Remarks: Information given is based on data obtained from

similar substances.

LC50 (Bluegill (Lepomis macrochirus)): 3.8 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Water flea (Daphnia magna)): 19 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae : IC50 (Pseudokirchneriella subcapitata (green algae)): 0.3 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.5

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Information given is based on data obtained from

similar substances.

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.066

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Valvoline:	Page: 11
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to fish (Chronic

toxicity)

: NOEC (Oncorhynchus mykiss (rainbow trout)): 0.041 mg/l

Exposure time: 89 d End point: Growth rate Test Type: flow-through test Method: OECD Test Guideline 210

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.08 mg/l

Exposure time: 21 d

End point: Reproduction Test Method: OECD Test Guideline 211

Remarks: Information given is based on data obtained from

similar substances.

Persistence and degradability

Components:

SODIUM MERCAPTOBENZOTHIAZOLE:

Biodegradability : Result: Not readily biodegradable.

Remarks: Information given is based on data obtained from

similar substances.

No data available

Bioaccumulative potential

Components:

SODIUM MERCAPTOBENZOTHIAZOLE:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): < 8

Exposure time: 6 Weeks Concentration: 0.01 mg/l

Remarks: Information given is based on data obtained from

similar substances.

Partition coefficient: n-

: log Pow: 2.42

octanol/water

pH: 7

No data available

Mobility in soil

Components:

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life

with long lasting effects.

Valvoline:	Page: 12
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
					LTD. QTY.

U.S. DOT - ROAD

0.0.20.
Not dangerous goods

CFR_RAIL_C

Not dangerous goods	

U.S. DOT - INLAND WATERWAYS

Not dangerous goods	

TDG ROAD C

Not dangerous goods

TDG RAIL C

Not dangerous goods

Valvoline:	Page: 13
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

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

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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

DSL : All components of this product are on the Canadian DSL

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

ENCS : Not in compliance with the inventory

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

Valvoline:	Page: 14
SAFETY DATA SHEET	Revision Date: 05/22/2017
	Print Date: 4/17/2018
	SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.0
882567	

TSCA : On TSCA Inventory

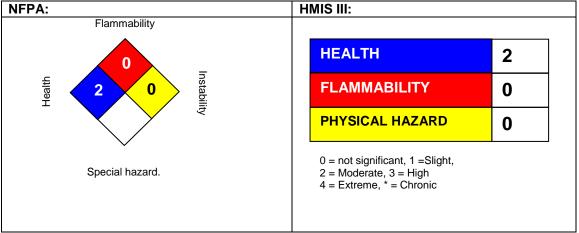
Inventories

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

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/22/2017



NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements

H272	May intensify fire; oxidizer.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

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.

Valvoline:	Page: 1	5
SAFETY DATA SHEET	Revision Date: 05/22/201	7
	Print Date: 4/17/201	8
	SDS Number: R029691	3
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR	Version: 1.	0
882567		

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 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

Valvoline:		Page: 16
SAFETY DATA SHEET		Revision Date: 05/22/2017
		Print Date: 4/17/2018
		SDS Number: R0296913
Valvoline Professional Series WATER PUMP LUBE & PROTECTANT WATER PUMP LUBE & PROTR		Version: 1.0
882567		

PMRA : Health Canada Pest Management Regulatory Agency RTK : Right to Know WHMIS : Workplace Hazardous Materials Information System