

Version: 1.3

SAFETY DATA SHEET

Zerex[™] ORIGINAL FORMULA Antifreeze Coolant

ZX001

29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Zerex[™] ORIGINAL FORMULA Antifreeze Coolant

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	Emergency telephone number
sheet	1-800-VALVOLINE (1-800-825-8654)
Valvoline LLC	
100 Valvoline Way	Regulatory Information Number
Lexington, KY 40509	1-800-TEAMVAL
United States of America (USA)	
1-800-TEAMVAL	Product Information
	1-800-TEAMVAL

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Acute toxicity (Oral)	: Category 4
Reproductive toxicity	: Category 1B
Specific target organ systemic 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. May cause damage to organs (Kidney, Liver) through prolonged or repeated exposure if swallowed.
Precautionary Statements	: Prevention:

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Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. 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

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ETHYLENE GLYCOL	107-21-1	Acute Tox. 4; H302	95.7212
		STOT RE 2; H373	
DIETHYLENE GLYCOL	111-46-6	Acute Tox. 4; H302	4.7852
		STOT RE 2; H373	
DISODIUM TETRABORATE ANHYDROUS	1330-43-4	Repr. 1B; H360	0.5018
		<u> </u>	

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 unconscious, place in recovery position and seek medical



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	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. Rinse mouth with water. 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	 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. 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) irritation (nose, throat, airways)
	irritation (nose, throat, airways) Cough pain in the abdomen and lower back cyanosis (causes blue coloring of the skin and nails from lack of oxygen) lung edema (fluid buildup in the lung tissue) acute kidney failure (sudden slowing or stopping of urine production) Convulsions Harmful if swallowed. May damage fertility or the unborn child.



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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 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.

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	:	Alcohols Aldehydes carbon dioxide and carbon monoxide ethers toxic fumes Hydrocarbons
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.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. 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	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). 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. 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. Observe label precautions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
ETHYLENE GLYCOL	107-21-1	C	100 mg/m3	ACGIH
			Aerosol only	
		C	50 ppm	OSHA P0
			125 mg/m3	



		С	40 ppm 100 mg/m3 Vapour	CAL PEL
DIETHYLENE GLYCOL	111-46-6	TWA	10 mg/m3	US WEEL
DISODIUM TETRABORATE ANHYDROUS	1330-43-4	TWA	1 mg/m3	NIOSH REL
		PEL	5 mg/m3	CAL PEL
		TWA	10 mg/m3	OSHA P0
		TWA	2 mg/m3 Inhalable fraction (Borate)	ACGIH
		STEL	6 mg/m3 Inhalable fraction (Borate)	ACGIH

Hazardous components without workplace control parameters CAS-No. Components DISODIUM TETRABORATE 1330-43-4 **ANHYDROUS 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 In the case of vapour formation use a respirator with an approved filter. A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by airpurifying respirators is limited. Use a positive pressure, airsupplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection. 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 splashproof safety goggles if material could be misted or splashed into eyes. Skin and body protection Wear as appropriate: Impervious clothing

Safety shoes



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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Colour	:	green
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	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 °F / > 111 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit	:	15.3 %(V) GLP: Calculated Explosive Limit
Lower explosion limit	:	3.2 %(V) GLP: Calculated Explosive Limit
Vapour pressure	:	0.12265 hPa (25 °C) Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.1205 g/cm3 (15.6 °C)

Solubility(ies)



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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	: excessive heat
Incompatible materials	: Acids Aldehydes Alkali metals Alkaline earth metals Bases strong alkalis Strong oxidizing agents Sulphur compounds
Hazardous decomposition products	Alcohols Aldehydes carbon dioxide and carbon monoxide ethers Hydrocarbons Organic acids ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation



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exposure	Skin contact Eye Contact Ingestion
Acute toxicity Harmful if swallowed. <u>Product:</u> Acute oral toxicity	: Remarks: Ingestion of medications contaminated with diethylene glycol has caused kidney failure and death in humans. Products containing diethylene glycol should be considered toxic by ingestion.
Acute dermal toxicity	: Remarks: Skin absorption of this material (or a component) may be increased through injured skin.
Components: ETHYLENE GLYCOL: Acute oral toxicity	: LD0 (Human): Estimated 1.56 g/kg
	Assessment: The component/mixture is classified as acute oral toxicity, category 4.
Acute inhalation toxicity	 LC50 (Rat): 10.9 mg/l Exposure time: 1 h Test atmosphere: dust/mist Assessment: No adverse effect has been observed in acute inhalation toxicity tests.
Acute dermal toxicity	: LD50 (Rabbit): 9,530 mg/kg
DIETHYLENE GLYCOL: Acute oral toxicity	: LD50 (Human): Expected 1,120 mg/kg Target Organs: Kidney
Acute inhalation toxicity	 LC50 (Rat): > 4.6 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: No adverse effect has been observed in acute inhalation toxicity tests.
Acute dermal toxicity	: LD50 (Rabbit): 13,300 mg/kg
DISODIUM TETRABORATE	ANHYDROUS: : LC50 (Rat): > 2.03 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403



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Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

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

 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation

Not classified based on available information. <u>Components:</u> ETHYLENE GLYCOL: Species: Rabbit Result: No skin irritation

DIETHYLENE GLYCOL: Species: Human Result: Slight, transient irritation

DISODIUM TETRABORATE ANHYDROUS: 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:

ETHYLENE GLYCOL: Result: Slight, transient irritation

DIETHYLENE GLYCOL: Species: Rabbit Result: Slight, transient irritation

DISODIUM TETRABORATE ANHYDROUS: Result: Slight, transient irritation

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.

DIETHYLENE GLYCOL: Test Type: Maximisation Test Species: Guinea pig



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Method: Directive 67/548/EEC, Annex V, B.6. Result: Did not cause sensitisation on laboratory animals.

DISODIUM TETRABORATE ANHYDROUS: Test Type: Buehler Test Species: Guinea pig Assessment: Does not cause skin sensitisation. Method: OECD Test Guideline 406 Germ cell mutagenicity Not classified based on available information. **Components:** ETHYLENE GLYCOL: Genotoxicity in vitro : Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation **Result:** negative DIETHYLENE GLYCOL: : Test Type: Ames test Genotoxicity in vitro Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 **Result: negative** GLP: yes Test species: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 479 **Result:** negative GLP: yes Genotoxicity in vivo : Test Type: In vivo micronucleus test Test species: Mouse Method: OECD Test Guideline 474 **Result:** negative GLP: yes Carcinogenicity Not classified based on available information. **Reproductive toxicity** May damage fertility or the unborn child.

Components:

DISODIUM TETRABORATE ANHYDROUS: Reproductive toxicity - : Clear evidence of adverse effects on sexual function and

Assessment 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

Not classified based on available information.



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Components:

ETHYLENE GLYCOL: Exposure routes: Ingestion Target Organs: Kidney, Liver Assessment: May cause damage to organs through prolonged or repeated exposure.

DIETHYLENE GLYCOL: Exposure routes: Ingestion Target Organs: Kidney Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity Not classified based on available information. Experience with human exposure <u>Components:</u> DIETHYLENE GLYCOL: Liver Further information <u>Product:</u> Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Product:		
Ecotoxicology Assessment Acute aquatic toxicity	:	Not classified based on available information.
Chronic aquatic toxicity	:	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



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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 24,000 mg/l Exposure time: 7 d
DIETHYLENE GLYCOL: Toxicity to fish	:	LC50 (Fathead minnow (Pimephales promelas)): 75,210 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Water flea (Daphnia magna)): > 10,000 mg/l Exposure time: 24 h Test Type: static test Method: DIN 38412
DISODIUM TETRABORATE Toxicity to fish		HYDROUS: LC50 (Pimephales promelas (fathead minnow)): 79.7 mg/l Exposure time: 96 h Remarks: Information refers to the main component.
Toxicity to algae	:	NOEC (Pseudokirchneriella subcapitata (green algae)): 17.5 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 Remarks: Information refers to the main component.
Toxicity to fish (Chronic toxicity)	:	NOEC (Danio rerio (zebra fish)): 5.6 mg/l Exposure time: 34 d Test Type: semi-static test Method: OECD Test Guideline 210 Remarks: Information refers to the main component.
Persistence and degradabili	ity	
<u>Components:</u> ETHYLENE GLYCOL: Biodegradability	:	Result: Readily biodegradable. Biodegradation: 90 - 100 % Exposure time: 10 d Method: OECD Test Guideline 301
DIETHYLENE GLYCOL: Biodegradability	:	Result: Readily biodegradable. Biodegradation: 70 - 80 % Exposure time: 28 d Method: OECD Test Guideline 301B
DISODIUM TETRABORATE Biodegradability		HYDROUS: Result: The methods for determining biodegradability are not applicable to inorganic substances.



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No data available Bioaccumulative potential <u>Components:</u> 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	
DIETHYLENE GLYCOL: Bioaccumulation	: Species: Leuciscus idus (Golden or Bioconcentration factor (BCF): 100	fe)
Partition coefficient: n- octanol/water	: log Pow: -1.47	
No data available Mobility in soil <u>Components:</u> No data available <u>Other adverse effects</u> No data available <u>Product:</u> Additional ecological information	: No data available	

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
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.
	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.



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SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT /
		02,000		Citteei	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

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



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*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant		no	
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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 (lbs)	Calculated product RQ (lbs)	
ETHYLENE GLYCOL	107-21-1	5000	5224	
SARA 304 Extremely Hazardo				
This material does not contain any components with a section 304 EHS RQ.				
SARA 311/312 Hazards	Acute Health Hazar Chronic Health Haz			
SARA 313	ETHYLENE GLYCO	DL 107-21-1	95.72 %	
California Prop 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.			
The components of this produ				
AICS :	On the inventory, or	r in compliance wit	th the inventory	
ENCS :	Not in compliance v	vith the inventory		
KECI :	On the inventory, or	r in compliance wit	th the inventory	
PICCS :	On the inventory, or	r in compliance wit	th the inventory	
IECSC :	On the inventory, or	r in compliance wit	th the inventory	
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)

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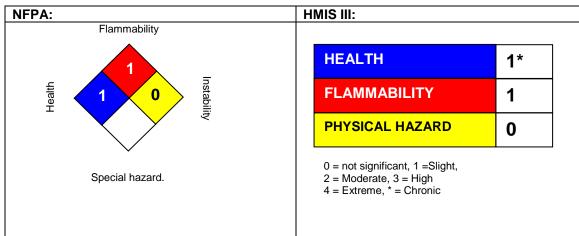
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SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification Combustible Liquid Class IIIB

Full text of H-Statements

H302	Harmful if swallowed.
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



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

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

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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

LČxx : 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

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System