

Valvoline™ VR1™ SAE 20W-50 Motor Oil

Version: 3.0	Revision Date: 06/15/2023	Print Date: 06/21/2023		
SECTION 1. IDENTIFICATION				
Product name	: Valvoline™ VR1™ SAE 20W-50 Motor Oil			
Product code	: 822347			
Manufacturer or supplier's details				
Company name of supplier	: Valvoline Global Operations			
Address	: 100 Valvoline Way Lexington, KY 40509 United States of America (USA)			
Telephone	: 1-800-TEAMVAL (1-800-832-6825)			
E-mail address	: SDS@valvolineglobal.com			
Emergency telephone number	: +1-800-VALVOLINE (+1-800-825-8654)			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)		
Eye irritation	Category 2A	
GHS label elements		
Hazard pictograms		
Signal word	Warning	
Hazard statements	H319 Causes serious eye irritation.	



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Precautionary statements	 Prevention: P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection. 	
	Response: P305 + P351 + P338 IF IN EYES: Rinse cautiou for several minutes. Remove contact lenses, if p to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medic attention.	resent and easy
Other hazards		

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	>= 70 - < 80
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	>= 1.5 - < 5
Zinc O,O,O',O'-tetrakis(1,3- dimethylbutyl) bis(phosphorodithioate	2215-35-2	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

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 advice. If symptoms persist, call a physician.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water.



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	Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.	
If swallowed	 Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious persol If symptoms persist, call a physician. 	n.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation.	

SECTION 5. FIREFIGHTING MEASURES

Unsuitable extinguishing media	:	High volume water jet
Hazardous combustion products	:	carbon dioxide and carbon monoxide
Further information	:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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 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.

SECTION 7. HANDLING AND STORAGE



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Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.	
Advice on safe handling	:	Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in application area. Dispose of rinse water in accordance with local and regulations.	
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventil place. Electrical installations / working materials must com the technological safety standards.	
Further information on storage stability	:	No decomposition if stored and applied as directed.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7	TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH

Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally required.

Hand protection



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Remarks	: The suitability for a specific workplace should with the producers of the protective gloves.	be discussed
Eye protection	: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnorn problems.	mal processing
Skin and body protection	: Impervious clothing Choose body protection according to the amor concentration of the dangerous substance at t	
Hygiene measures	: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of v	vorkday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	amber
Odour	:	mild
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	600.01 °F / 315.56 °C (1,013.333333 hPa) Calculated Phase Transition Liquid/Gas
Flash point	:	394 - 480 °F / 201 - 249 °C
		Method: closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available



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Upper explosion limit / Upper flammability limit	:	7 %(V) GLP: Calculated Explosive Limit	
Lower explosion limit / Lower flammability limit	:	0.9 %(V) GLP: Calculated Explosive Limit	
Vapour pressure	:	0.1 hPa (68 °F / 20 °C) Calculated Vapor Pressure	
Relative vapour density	:	No data available	
Relative density	:	0.8880 (60.01 °F / 15.56 °C)	
Density	:	0.8816 g/cm3 (60.01 °F / 15.56 °C)	
Solubility(ies) Water solubility	:	negligible	
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	:	182 mm2/s (104 °F / 40 °C)	
Oxidizing properties	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as direct	ted.
Chemical stability	: No decomposition if stored and applied as direct	ted.
Possibility of hazardous reactions	: No decomposition if stored and applied as direct	ted.
Conditions to avoid	: No data available	
	None known.	
Incompatible materials	: Not applicable	
	Acids	



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	Strong oxidizing agents	
Hazardous decomposition products	: No hazardous decomposition products are known.	
ECTION 11. TOXICOLOGICAL	NFORMATION	
Acute toxicity		
Not classified based on avail	ble information.	
Product:		
Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Components:		
DISTILLATES (PETROLEU	I), HYDROTREATED HEAVY PARAFFINIC:	
•	: LD50 (Rat): > 15 g/kg	
Acute dermal toxicity	: LD50 (Rabbit): > 5 g/kg	
DISTILLATES (PETROLEU	I), HYDROTREATED HEAVY PARAFFINIC:	
Acute oral toxicity	: LD50 (Rat): > 15 g/kg	
Acute dermal toxicity	: LD50 (Rabbit): > 5 g/kg	
Zinc O,O,O',O'-tetrakis(1,3-	limethylbutyl) bis(phosphorodithioate:	
Acute oral toxicity	: LD50 (Rat): 2,230 mg/kg GLP: no	
Acute inhalation toxicity	 LC50 (Rat): > 2.3 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: The toxicological data has been taken from products of similar composition. 	
Acute dermal toxicity	 LD50 (Rabbit): > 3,160 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute toxicity 	e dermal



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Skin corrosion/irrita	tion	
Not classified based of	on available information.	
Product:		
Remarks	: May cause skin irritation and/or dermatitis.	
<u>Components:</u>		
DISTILLATES (PETR	OLEUM), HYDROTREATED HEAVY PARAFFINIC:	
Assessment Result	Slight, transient irritationSlight, transient irritation	
DISTILLATES (PETR	OLEUM), HYDROTREATED HEAVY PARAFFINIC:	
Assessment	: Slight, transient irritation	
Result	: Slight, transient irritation	
Zinc 0,0,0',0'-tetral	kis(1,3-dimethylbutyl) bis(phosphorodithioate:	
Species	: Rabbit	
Method Result	: OECD Test Guideline 404 : Irritating to skin.	
GLP	: yes	
Serious eye damage	leye irritation	
Causes serious eye ir	ritation.	
Product:		
Remarks	: May cause irreversible eye damage.	
Components:		
DISTILLATES (PETR	OLEUM), HYDROTREATED HEAVY PARAFFINIC:	
Result	: No eye irritation	
Assessment	: No eye irritation	
DISTILLATES (PETR	OLEUM), HYDROTREATED HEAVY PARAFFINIC:	
Result	: No eye irritation	
Assessment	: No eye irritation	
Zinc O,O,O',O'-tetral	kis(1,3-dimethylbutyl) bis(phosphorodithioate:	
Result	: Corrosive	



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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate:

Species :	Guinea pig
Assessment :	Did not cause sensitisation on laboratory animals.
Method :	OECD Test Guideline 406
Result :	Did not cause sensitisation on laboratory animals.
GLP :	yes
	-

Germ cell mutagenicity

Not classified based on available information.

Components:

Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate:

Genotoxicity in vitro	:	Test Type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation
		Result: negative

Carcinogenicity

Not classified based on available information.

Components:

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Carcinogenicity -	:	Classified based on DMSO extract content < 3% (Regulation
Assessment		(EC) 1272/2008, Annex VI, Part 3, Note L)

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC:

Carcinogenicity -	:	Classified based on DMSO extract content < 3% (Regulation
Assessment		(EC) 1272/2008, Annex VI, Part 3, Note L)

IARC	Group 1: Carcinogenic to humans	
	Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0
	(Mineral oils, untreated or mildly treated)	

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.



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NTP		man carcinogen leum), solvent-dewaxed heavy paraffinic ntreated and Mildly Treated)	64742-65-0
Reproductiv	e toxicity		
Not classified	based on availabl	e information.	
STOT - sing	-		
	l based on availabl	e information.	
-	ated exposure I based on availabl	ainformation	
Aspiration to Not classified	bxicity I based on availabl	e information	
Components			
Further info	toxicity classificati	on	
<u>Product:</u> Remarks	:	No data available	
	OLOGICAL INFOR	MATION	
Ecotoxicity			
Product:			
Ecotoxicolo Acute aquation	gy Assessment c toxicity :	Not classified based on available inform	ation.
Chronic aqua	tic toxicity :	Not classified based on available inform	ation.
<u>Component</u> :	<u>s:</u>		
DISTILLATE Toxicity to fis		HYDROTREATED HEAVY PARAFFINIC: LL50 (Fish): > 100 mg/l Exposure time: 96 h	

Toxicity to daphnia and other	:	EL50 (Aquatic invertebrates): > 10,000 mg/l
aquatic invertebrates		Exposure time: 48 h



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Toxicity to algae/aquatic plants	:	EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h	
Toxicity to fish (Chronic	:	NOEC (Fish): 10 mg/l	
toxicity) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Aquatic invertebrates): 10 mg/l	
Ecotoxicology Assessment			
Acute aquatic toxicity	:	Not classified based on available information.	
Chronic aquatic toxicity	:	Not classified based on available information.	
DISTILLATES (PETROLEUM	I), F	IYDROTREATED HEAVY PARAFFINIC:	
Ecotoxicology Assessment			
Acute aquatic toxicity	:	Not classified based on available information.	
Chronic aquatic toxicity	:	Not classified based on available information.	
Zinc O,O,O',O'-tetrakis(1,3-d Toxicity to fish	lim(ethylbutyl) bis(phosphorodithioate: LL50 (Oncorhynchus mykiss (rainbow trout)): 4.5 m Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 Remarks: The toxicological data has been taken fro products of similar composition.	-
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 23 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes	
Toxicity to algae/aquatic plants	:	NOEL (Desmodesmus subspicatus (green algae)): End point: Growth inhibition Exposure time: 72 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 201 Remarks: The toxicological data has been taken fro products of similar composition.	-
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.4 mg/l Exposure time: 21 d Test substance: WAF Method: OECD Test Guideline 211	



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	Remarks: The toxicological data has been t products of similar composition.	aken from
Ecotoxicology Assessment		
Acute aquatic toxicity	: Toxic to aquatic life.	
Chronic aquatic toxicity	: Toxic to aquatic life with long lasting effects	
Persistence and degradabi	ity	
Components:		
Zinc O,O,O',O'-tetrakis(1,3-	limethylbutyl) bis(phosphorodithioate:	
Biodegradability	 Result: Not readily biodegradable. Biodegradation: 1.5 % Exposure time: 28 d Method: OECD Test Guideline 301B Remarks: The toxicological data has been t products of similar composition. 	aken from
Bioaccumulative potential		
Components:		
•	I), HYDROTREATED HEAVY PARAFFINIC:	
Partition coefficient: n- octanol/water	: log Pow: Expected > 7	
Mobility in soil No data available		
Other adverse effects		
Product:		
Ozone-Depletion Potential	 Regulation: 40 CFR Protection of Environm Protection of Stratospheric Ozone - CAA Se Substances Remarks: This product neither contains, not manufactured with a Class I or Class II ODS U.S. Clean Air Act Section 602 (40 CFR 82, B). 	ection 602 Class I was S as defined by the
	В).	



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 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

49 CFR Not regulated as a dangerous good

Special precautions for user

Not applicable

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

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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



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•	dous Substances Threshold Planning Que n any components with a section 302 EHS ⁻ : Serious eye damage or eye irritation	•
SARA 313	: The following components are subject established by SARA Title III, Section	
	Zinc O,O,O',O'- 2215-35-2 tetrakis(1,3- dimethylbutyl) bis(phosphorodit hioate	>= 1 - < 5 %
	Zinc, bis[O,O- 4259-15-8 bis(2-ethylhexyl) phosphorodithioa to-S,S']-, (T-4)-	>= 0.1 - < 1 %

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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).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

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).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311. Table 117.3.

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307 2215-35-2

Zinc 0,0,0',0'tetrakis(1,3dimethylbutyl) bis(phosphorodithioate >= 1 - < 5 %

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

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know

DISTILLATES (PETROLEUM), HYDROTREATED HEAVY 64742-54-7



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	PARAFFINIC DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	64742-62-7
	NAPHTHENIC	
	PROPRIETARY SUBSTANCE OF HITEC 11188 - 000000276110	Not Assigned
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate	2215-35-2
	Distillates, petroleum, solvent-refined heavy paraffinic	64741-88-4
	Distillates (petroleum), solvent-dewaxed heavy paraffinic Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T- 4)-	64742-65-0 4259-15-8
	., DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0
	DIPHENYLAMINE	122-39-4
Maine C	hemicals of High Concern	
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
	DIPHENYLAMINE	122-39-4
Vermon	t Chemicals of High Concern	
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
	DIPHENYLAMINE	122-39-4
Washing	gton Chemicals of High Concern	
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
	DIPHENYLAMINE	122-39-4
Californ	ia List of Hazardous Substances	
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
_	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY	64742-54-7
	Zinc O,O,O',O'-tetrakis(1,3-dimethylbutyl) bis(phosphorodithioate	2215-35-2
Californ	ia Permissible Exposure Limits for Chemical Contaminants	
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
	DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC	64742-54-7
The com	ponents of this product are reported in the following inven-	tories:
TCSI	: Not in compliance with the inventory	
TSCA	: All substances listed as active on the	TSCA inventory

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AIIC	: On the inventory, or in compliance with the inventory		
DSL	: All components of this product are on the Canadian DSL		
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		
NZIoC	: 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

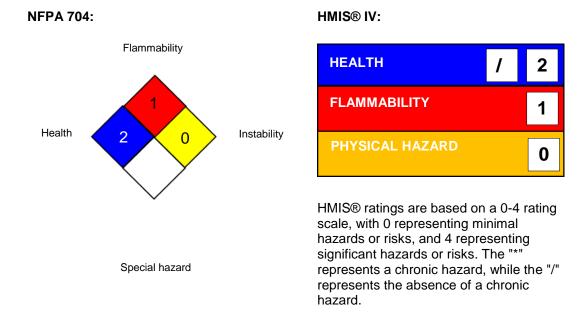


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Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1
		Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration;



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NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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

US / EN

Internal information : R0173128