

SAFETY DATA SHEET	Revision Date: 09/11/2018
	Print Date: 10/25/2018
	SDS Number: R0328421
Valvoline™ Heavy Duty Carb & Throttle Body Cleaner	Version: 1.4
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29 CFR 1910.1200 (OSHA HazCom 2012) SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

Product identifier

Trade name

Valvoline[™] Heavy Duty Carb & Throttle Body Cleaner

Details of the supplier of the safety data sheet	Emergency telephone number 1-800-VALVOLINE (1-800-825-8654)
Valvoline LLC 100 Valvoline Way Lexington, KY 40509 United States of America (USA)	Regulatory Information Number 1-800-TEAMVAL (1-800-832-6825)
1-800-TEAMVAL (1-800-832-6825)	Product Information 1-800-TEAMVAL (1-800-832-6825)
SDS@valvoline.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable aerosols	· Cotogon (1
Flammable aerosols	: Category 1
Acute toxicity (Oral)	: Category 4
Acute toxicity (Inhalation)	: Category 4
Acute toxicity (Dermal)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2A
Carcinogenicity	: Category 2
Specific target organ systemic toxicity - single exposure	: Category 1 (Central nervous system, Eyes)
Specific target organ systemic toxicity - single exposure	: Category 3 (Respiratory system, Central nervous system)
Specific target organ	: Category 2 (Auditory system)
	1/0/



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systemic toxicity - repeated exposure	
Aspiration hazard	: Category 1
GHS label elements Hazard pictograms	
Signal Word	: Danger
Hazard Statements	 Extremely flammable aerosol. Harmful if swallowed, in contact with skin or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Causes damage to organs (Central nervous system, Eyes). May cause damage to organs (Auditory system) through prolonged or repeated exposure.
Precautionary Statements	 Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed: Call a POISON CENTER or doctor/ physician. Do NOT induce vomiting.



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If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. **Storage:** Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. **Disposal:** Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
Chemical nature	:	Static Accumulator
Chemical nature	:	Defatter

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
ACETONE	67-64-1	Flam. Liq. 2; H225	>=50.00 - < 60.00
		Eye Irrit. 2A; H319	
		STOT SE 3; H336	
METHANOL	67-56-1	Flam. Liq. 2; H225	>=20.00 - < 30.00
		Acute Tox. 3; H301	
		Acute Tox. 3; H331	
		Acute Tox. 3; H311	
		STOT SE 1; H370	
XYLENE	1330-20-7	Flam. Liq. 3; H226	>=20.00 - < 30.00
		Acute Tox. 4; H312	
		Skin Irrit. 2; H315	
	1		<u> </u>



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		Eye Irrit. 2A; H319 STOT SE 3; H335, H336 Asp. Tox. 1; H304	
ETHYL BENZENE	100-41-4	Flam. Liq. 2; H225	>=5.00 - < 10.00
		Acute Tox. 4; H332	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		Carc. 2; H351	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	>=5.00 - < 10.00
		SA	

SECTION 4. FIRST AID MEASURES

General advice	 Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	 Move to fresh air. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. Consult a physician after significant exposure.
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.



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	Remove contact lenses. Protect unharmed eye.
If swallowed :	Obtain medical attention. Do NOT induce vomiting. 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	This material (or a component) has produced hyperglycemia and ketosis following substantial ingestion. This product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the skin stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) discomfort in the chest effects on memory muscle cramps pain in the abdomen and lower back Blurred vision Shortness of breath confusion irregular heartbeat cyanosis (causes blue coloring of the skin and nails from lack of oxygen) visual impairment (including blindness) Harmful if swallowed, in contact with skin or if inhaled. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.



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Suspected of causing cancer. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.

Notes to physician	: No hazards which require special first aid measures.
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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	carbon dioxide and carbon monoxide Hydrocarbons Aldehydes
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. Use a water spray to cool fully closed containers.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Evacuate personnel to safe areas.
protective equipment and		Remove all sources of ignition.



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emergency procedures	Use personal protective equipment. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. 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.
Other information :	Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Open drum carefully as content may be under pressure. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. 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. Container may be opened only under exhaust ventilation hood.
Conditions for safe storage	 BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. 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. Observe label precautions. No smoking.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
ACETONE	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm	NIOSH REL
			590 mg/m3	
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1
		TWA	750 ppm	OSHA P0
			1,800 mg/m3	
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		STEL	750 ppm	CAL PEL
			1,780 mg/m3	
		С	3,000 ppm	CAL PEL
		PEL	500 ppm 1,200 mg/m3	CAL PEL
METHANOL	67-56-1	TWA	200 ppm	ACGIH
		STEL	250 ppm	ACGIH
		TWA	200 ppm	NIOSH REL
			260 mg/m3	
		ST	250 ppm	NIOSH REL
			325 mg/m3	
		TWA	200 ppm	OSHA Z-1
			260 mg/m3	
		STEL	250 ppm	OSHA P0
		-	325 mg/m3	
		TWA	200 ppm	OSHA P0
			260 mg/m3	
		С	1,000 ppm	CAL PEL
		PEL	200 ppm	CAL PEL
			260 mg/m3	
		STEL	250 ppm	CAL PEL
			325 mg/m3	
XYLENE	1330-20-7	STEL	150 ppm	CAL PEL
			655 mg/m3	
		С	300 ppm	CAL PEL
		PEL	100 ppm	CAL PEL
			435 mg/m3	
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
				ACGIH
		STEL	150 ppm	
	STEL 150 ppm 655 mg/m3	OSHA P0		
		TWA	100 ppm	OSHA P0



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			435 mg/m3	
ETHYL BENZENE	100-41-4	TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
		PEL	5 ppm 22 mg/m3	CAL PEL
		STEL	30 ppm 130 mg/m3	CAL PEL
CARBON DIOXIDE	124-38-9	TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0
		PEL	5,000 ppm 9,000 mg/m3	CAL PEL
		STEL	30,000 ppm 54,000 mg/m3	CAL PEL

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentrati on	Basis
ACETONE	67-64-1	Acetone	Urine	End of shift (As soon as possible after exposure ceases)	25 mg/l	ZUS_A CGIHB
METHANOL	67-56-1	Methanol	Urine	End of shift (As soon as possible after exposure	15 mg/l	ZUS_A CGIHB



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				ceases)		
XYLENE	1330-20- 7	Methylhipp uric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ZUS_A CGIHB
ETHYL BENZENE	100-41-4	Sum of mandelic acid and phenyl glyoxylic acid	Urine	End of shift (As soon as possible after exposure ceases)	0.15 g/g creatinine	ZUS_A CGIHB
Engineering measures	ve a	rovide sufficier entilation to ma pplicable) or be pparent advers	aintain expos elow levels t	sure below ex	posure guideli	nes (if
Personal protective equ	uipment					
Respiratory protection	aļ Ir aļ Ca ci ci sī sī sī ci	a the case of va pproved filter. The case of du pproved filter. NIOSH-appro artridge and/or rcumstances v xceed exposur therwise been urifying respira elease, exposu rcumstances v rovide adequat	ust or aeroso ved air-purif filter may be vhere airborn e limits (if ap determined. tors is limite tor if there is re levels are vhere an air-	ol formation us ying respirato e permissible ne concentrat oplicable) or if Protection p d. Use a pos s any potentia not known o purifying resp	se respirator w r with an appro under certain ions are expect overexposure rovided by air- itive pressure, I for uncontroll r any other	opriate cted to has air- ed
Hand protection						
Remarks		he suitability fo				sed
Eye protection		Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.			ial for	
Skin and body protectio	lr S F C	Vear as approp npervious cloth afety shoes lame-resistant choose body pr oncentration of	ning clothing rotection acc			place.



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Discard gloves that show tears, pinholes, or signs of wear Wear resistant gloves (consult your safety equipment supplier).
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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	:	aerosol
Odour	:	No data available
Odour Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Boiling point/boiling range	:	133 °F / 56 °C (1,013.232 hPa) Calculated Phase Transition Liquid/Gas
Flash point	:	-4 °F / -20 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	
		No data available
		No data available
Flammability (liquids)	:	Static-accumulating flammable liquid.
Flammability (liquids) Flammability (liquids) Upper explosion limit	:	36 %(V) Calculated Explosive Limit
Lower explosion limit	:	1 %(V) Calculated Explosive Limit
Vapour pressure	:	307.9692 hPa (25 °C) Calculated Vapor Pressure
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	0.8132 g/cm3 (15.56 °C)



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Solubility(ies) 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
Heat of combustion	: Estimated 30.0 kJ/g

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	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
	excessive heat
Incompatible materials	: Acids alkalis aluminum Amines Ammonia halogens Lead peroxides Reducing agents sodium strong bases Strong oxidizing agents Zinc Peroxides
Hazardous decomposition	carbon dioxide and carbon monoxide
products	carbon dioxide and carbon monoxide

products

carbon dioxide and carbon monoxide



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formaldehyde-like Hydrocarbons

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Eye Contact Ingestion Acute toxicity Harmful if swallowed, in contact with skin or if inhaled.				
Product: Acute oral toxicity	:	Acute toxicity estimate: 433.88 mg/kg Method: Calculation method		
Acute inhalation toxicity	:	Acute toxicity estimate: 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method		
Acute dermal toxicity	:	Acute toxicity estimate: 1,171 mg/kg Method: Calculation method		
Components:				
ACETONE: Acute oral toxicity	:	LD50 (Rat, female): 5,800 mg/kg		
Acute inhalation toxicity	:	LC50 (Rat, female): 76 mg/l Exposure time: 4 h Test atmosphere: vapour		
Acute dermal toxicity	:	LD50 (Rabbit): > 7,426 mg/kg		
METHANOL: Acute oral toxicity	:	LDLo (Human): 300 mg/kg Assessment: The component/mixture is classified as acute oral toxicity, category 3.		
Acute inhalation toxicity	:	Test atmosphere: vapour Assessment: The component/mixture is classified as acute inhalation toxicity, category 3.		
Acute dermal toxicity	:	Assessment: The component/mixture is classified as acute dermal toxicity, category 3.		
XYLENE: Acute oral toxicity	:	LD50 (Rat): 3,523 - 8,600 mg/kg		



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Acute inhalation toxicity	:	LC50 (Rat): 6700 ppm Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 1,700 mg/kg
ETHYL BENZENE: Acute oral toxicity	:	LD50 (Rat): ca. 3,500 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 4000 ppm Exposure time: 4 h Test atmosphere: vapour
Acute dermal toxicity	:	LD50 (Rabbit): 17,800 mg/kg
Skin corrosion/irritation Causes skin irritation. Product:		
Remarks	:	May cause skin irritation and/or dermatitis.
Result	:	Repeated exposure may cause skin dryness or cracking.
Components: ACETONE: Result	:	Slight, transient irritation
Result	:	Repeated exposure may cause skin dryness or cracking.
METHANOL: Species Result	:	Rabbit No skin irritation
XYLENE: Assessment Result	:	Irritating to skin. Irritating to skin.
ETHYL BENZENE: Result	:	Irritating to skin.
CARBON DIOXIDE: Assessment Result	:	No skin irritation No skin irritation
Serious eye damage/eye irri Causes serious eye irritation. Product:	itati	on
Remarks	:	Vapours may cause irritation to the eyes, respiratory system and the skin. Causes serious eye irritation.



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Components: ACETONE: Result Assessment	:		Irritating to eyes. Irritating to eyes.	
METHANOL: Species Result	:	-	Rabbit Slight, transient irritation	
XYLENE: Result	:	:	Irritating to eyes.	
ETHYL BENZE Result	E NE:	:	Irritating to eyes.	
CARBON DIO Result	XIDE:	:	No eye irritation	
Respiratory se	based on available ensitisation based on available :	le ii : :		
Germ cell mut Not classified b Carcinogenici Suspected of c IARC	based on available ty ausing cancer.		nformation. y carcinogenic to humans	Not Assigned
OSHA			this product present at levels greate regulated carcinogens.	r than or equal to 0.1% is
NTP			this product present at levels greate wn or anticipated carcinogen by NT	
Reproductive toxicity Not classified based on available information. STOT - single exposure May cause respiratory irritation. May cause drowsiness or dizziness.				

Causes damage to organs (Central nervous system, Eyes).

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<u>Components:</u> ACETONE:				
Exposure routes	:	Inhalation		
Target Organs	:	Nervous system		
Assessment	•	May cause drowsiness or dizziness.		
METHANOL:				
Target Organs	:	Central nervous system, Eyes		
Assessment	:	The substance or mixture is classified as specific target organ		
		toxicant, single exposure, category 1.		
XYLENE:				
Assessment	:	May cause respiratory irritation.		
Assessment	:	May cause drowsiness or dizziness.		
STOT - repeated exposure				
	s (A	uditory system) through prolonged or repeated exposure.		
Components:				
ETHYL BENZENE: Target Organs		Auditory system		
Assessment	÷	May cause damage to organs through prolonged or repeated		
	•	exposure.		
A privation to visity				
Aspiration toxicity May be fatal if swallowed and	len	ters airways.		
	-			
<u>Components:</u> ACETONE:				
May be harmful if swallowed and enters airways.				
XYLENE:				
May be fatal if swallowed and enters airways.				
ETHYL BENZENE:				
May be fatal if swallowed and enters airways.				

Further information Product:	
Remarks :	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
Components: METHANOL: Remarks :	Central nervous system
ETHYL BENZENE: Remarks :	Central nervous system



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Short-term (acute) aquatic hazard	: Acute aquatic toxicity Category 3; Harmful to aquatic life.
Long-term (chronic) aquatic hazard	: Not classified based on available information.
Components:	
ACETONE: Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): 4,740 - 6,330 mg/l Exposure time: 96 h Test Type: static test
	LC50 (Pimephales promelas (fathead minnow)): 8,733 - 9,482 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to algae	: NOEC (Microcystis aeruginosa (blue-green algae)): 530 mg/l Exposure time: 8 d Test Type: static test
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 2,112 mg/l Exposure time: 28 d Test Type: flow-through test
METHANOL:	
Toxicity to fish	 LC50 (Oncorhynchus mykiss (rainbow trout)): 18,000 - 20,000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 48 h Test Type: static test
XYLENE: Toxicity to daphnia and other aquatic invertebrates	: LC50 (Daphnia magna (Water flea)): > 100 - < 1,000 mg/l Exposure time: 24 h Test Type: static test
ETHYL BENZENE: Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): 9.1 - 15.6 mg/l



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	Exposure time: 96 h Test Type: static test
	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l Exposure time: 96 h Test Type: Renewal
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 1.37 - 4.4 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae	EC50 (Pseudokirchneriella subcapitata (green algae)): 3.6 mg/l End point: Growth inhibition Exposure time: 96 h
Ecotoxicology Assessment Short-term (acute) aquatic hazard	Acute aquatic toxicity Category 2; Toxic to aquatic life.
Long-term (chronic) aquatic hazard	Not classified based on available information.
Persistence and degradability <u>Components:</u> ACETONE: Biodegradability	Result: Readily biodegradable. Biodegradation: 90.9 % Exposure time: 28 d
	Method: OECD Test Guideline 301B
METHANOL: Biodegradability	Result: Readily biodegradable. Biodegradation: 99 % Exposure time: 28 d Method: OECD Test Guideline 301D
XYLENE: Physico-chemical removability	Remarks: The product evaporates readily.
ETHYL BENZENE: Biodegradability	Result: Readily biodegradable. Biodegradation: 70 - 80 % Exposure time: 28 d
No data available Bioaccumulative potential Components:	
ACETONE: Partition coefficient: n-	: log Pow: -0.24



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octanol/water

METHANOL: Partition coefficient: n- octanol/water	: log Pow: -0.77
XYLENE: Partition coefficient: n- octanol/water	: log Pow: 3.16
ETHYL BENZENE: Partition coefficient: n- octanol/water	: log Pow: 3.15
No data available Mobility in soil <u>Components:</u> No data available Other adverse effects No data available <u>Product:</u> Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.

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. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

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

U.S. DOT - ROAD

UN	1950	Aerosols	2.1	LIMITED
				QUANTITY

CFR_RAIL_C

	/			
UN	1950	Aerosols	2.1	LIMITED
				QUANTITY

U.S. DOT - INLAND WATERWAYS

UN	1950	Aerosols	2.1	LIMITED
				QUANTITY

TDG ROAD C

UN	1950	AEROSOLS	2.1	LIMITED QUANTITY

TDG_RAIL_C

1950	AEROSOLS	2.1	LIMITED				
			QUANTITY				
	1950	1950 AEROSOLS	1950 AEROSOLS 2.1				

TDG_INWT_C

UN	1950	AEROSOLS	2.1	LIMITED
				QUANTITY

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	1950	AEROSOLS	2.1	LIMITED QUANTITY

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1950	Aerosols, flammable	2.1	

MX_DG

UN	1950	AEROSOLES	2	



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*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

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
XYLENE	1330-20-7	100	497

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards	:	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure) Aspiration hazard
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California Prop. 65

MARNING: Cancer - www.P65Warnings.ca.gov.

MARNING: Reproductive Harm - www.P65Warnings.ca.gov.

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



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TSCA

: On TSCA Inventory

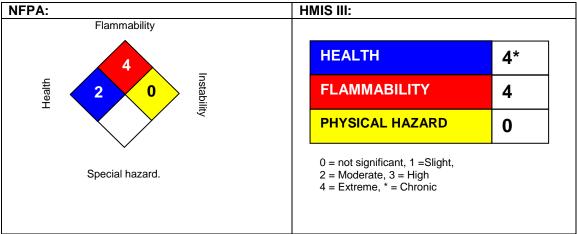
TSCA list

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

SECTION 16. OTHER INFORMATION

Further information

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NFPA Flammable and Combustible Liquids Classification Not applicable

Full text of H-Statements

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.



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

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

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

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

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

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

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

H-statement : Hazard Statement

IATA : International Air Transport Association.

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

ICAO : International Civil Aviation Organization ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization" IMDG : International Maritime Code for Dangerous Goods ISO : International Organization for Standardization logPow : octanol-water partition coefficient LCxx : Lethal Concentration, for xx percent of test population LDxx : Lethal Dose, for xx percent of test population. ICxx : Inhibitory Concentration for xx of a substance Ecxx : Effective Concentration of xx N.O.S.: Not Otherwise Specified OECD : Organization for Economic Co-operation and Development **OEL : Occupational Exposure Limit** P-Statement : Precautionary Statement PBT : Persistent, Bioaccumulative and Toxic **PPE : Personal Protective Equipment** STEL : Short-term exposure limit STOT : Specific Target Organ Toxicity TLV : Threshold Limit Value TWA : Time-weighted average vPvB : Very Persistent and Very Bioaccumulative WEL : Workplace Exposure Level

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act



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DOT : Department of Transportation

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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