

SAFETY DATA SHEET	Revision Date: 05/22/201
	Print Date: 10/26/201
	SDS Number: R032842
Valvoline™ Heavy Duty Carb & Throttle Body Cleaner	Version: 1.
602333	

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	Regulatory Information Number
Lexington, KY 40509 United States of America (USA)	1-800-TEAMVAL
1-800-TEAMVAL	Product Information 1-800-TEAMVAL

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification 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
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 systemic toxicity - repeated exposure	: Category 2 (Auditory system)
Aspiration hazard	: Category 1

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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. Causes damage to organs (Central nervous system, Eyes). May cause damage to organs (Auditory system) through prolonged or repeated exposure.
Precautionary Statements	 Prevention: 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 ON SKIN: Wash with plenty of water.Call a POISON CENTER/doctor. IF IN HALED: 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. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse. 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.



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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	51.8082
		Eye Irrit. 2A; H319	
		STOT SE 3; H336	
METHANOL	67-56-1	Flam. Liq. 2; H225	22.0706
		Acute Tox. 3; H301	
		Acute Tox. 3; H331	
		Acute Tox. 3; H311	
		STOT SE 1; H370	
XYLENE	1330-20-7	Flam. Liq. 3; H226	20.1213
		Acute Tox. 4; H332	
		Acute Tox. 4; H312	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335, H336	
		Asp. Tox. 1; H304	



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ETHYL BENZENE	100-41-4	Flam. Liq. 2; H225	6.0364
		Acute Tox. 4; H332	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
CARBON DIOXIDE	124-38-9	Press. Gas Liquefied gas; H280	6.00
		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 medica advice. Consult a physician after significant exposure.	I
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	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.	



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i	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. 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. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs.
	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



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		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, protective equipment and emergency procedures	 Evacuate personnel to safe areas. Remove all sources of ignition. 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.



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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

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ACETONE	67-64-1	TWA	250 ppm	ACGIH
		STEL	500 ppm	ACGIH
		TWA	250 ppm 590 mg/m3	NIOSH REL
		TWA	1,000 ppm 2,400 mg/m3	OSHA Z-1



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		TWA	750 ppm 1,800 mg/m3	OSHA P0
		STEL	1,000 ppm 2,400 mg/m3	OSHA P0
		STEL	750 ppm 1,780 mg/m3	CAL PEL
		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 260 mg/m3	NIOSH REL
		ST	250 ppm 325 mg/m3	NIOSH REL
		TWA	200 ppm 260 mg/m3	OSHA Z-1
		STEL	250 ppm 325 mg/m3	OSHA P0
		TWA	200 ppm 260 mg/m3	OSHA P0
		С	1,000 ppm	CAL PEL
		PEL	200 ppm 260 mg/m3	CAL PEL
		STEL	250 ppm 325 mg/m3	CAL PEL
XYLENE	1330-20-7	STEL	150 ppm 655 mg/m3	CAL PEL
		С	300 ppm	CAL PEL
		PEL	100 ppm 435 mg/m3	CAL PEL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
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	OSHA P0



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			545 mg/m3	
		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 ceases)	15 mg/l	ZUS_A CGIHB
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	Urine	End of shift (As soon as possible	0.15 g/g creatinine	ZUS_A CGIHB



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		glyoxylic acid	after exposure ceases)		
Engineering measures	s :	: Provide sufficient mechanical (general and/or local exhaus ventilation to maintain exposure below exposure guidelines applicable) or below levels that cause known, suspected or apparent adverse effects.			
Personal protective eq Respiratory protection	uipment :	approved filter.	pour formation use a reals	-	ith an
		cartridge and/or circumstances w exceed exposure otherwise been purifying respira supplied respirat release, exposure	ved air-purifying respirat filter may be permissible where airborne concentrate e limits (if applicable) or determined. Protection tors is limited. Use a po tor if there is any potenti re levels are not known of where an air-purifying response e protection.	e under certain ations are expect if overexposure provided by air- sitive pressure, al for uncontrollo or any other	eted to has air- ed
Hand protection Remarks	:		or a specific workplace s ers of the protective glov		sed
Eye protection	:		splash goggles when the eyes to liquid, vapor or i		ial for
Skin and body protectio	n :	concentration of Discard gloves t	ning	ce at the work p s, or signs of we	
Hygiene measures	:	Wash hands be When using do When using do		nd of workday.	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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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 Lower explosion limit Vapour pressure	::	36 %(V) Calculated Explosive Limit 1 %(V) Calculated Explosive Limit 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)
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



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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 products	carbon dioxide and carbon monoxide formaldehyde-like Hydrocarbons
	riyarooaroono

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation
exposure		Skin contact
-		Eye Contact
		Ingestion



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Acute toxicity Harmful if swallowed, in conta Components: ACETONE:	act with skin or if inhaled.
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.
	LC50 (Rat): 64,000 mg/l Exposure time: 4 h Test atmosphere: vapour
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
Acute inhalation toxicity	: LCLo (Rat): 8,000 mg/l Exposure time: 4 h
	LC50 (Rat): 6700 ppm Exposure time: 4 h Test atmosphere: vapour
	Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.
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

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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: Rabbit Result: No skin irritation

XYLENE: Result: Irritating to skin.

ETHYL BENZENE: Result: Irritating to skin.

CARBON DIOXIDE: Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation. <u>Product:</u> Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

ACETONE: Result: Irritating to eyes.

METHANOL: Species: Rabbit Result: Slight, transient irritation

XYLENE: Result: Eye irritation

ETHYL BENZENE: Result: Irritating to eyes.



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CARBON DIOXIDE: Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information. Components: METHANOL: 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. **Carcinogenicity** Not classified based on available information. **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). **Components:** 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 Not classified based on available information. <u>Components:</u> ETHYL BENZENE: Target Organs: Auditory system Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity May be fatal if swallowed and enters airways. <u>Components:</u> ACETONE:



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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

Carcinogenicity: IARC	Group 2B: Possibly carcinogenic to humans	
	ETHYL BENZENE	100-41-4
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Acute aquatic toxicity	: Acute aquatic toxicity Category 3; Harmful to aquatic life.
Chronic aquatic toxicity	: Not classified based on available information.
Components: ACETONE: Toxicity to fish	: LC50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 4,740 - 6,330 mg/l Exposure time: 96 h Test Type: static test

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	LC50 (Fathead minnow (Pimephales promelas)): 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 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 18,000 - 20,000 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Water flea (Daphnia magna)): > 10,000 mg/l Exposure time: 48 h Test Type: static test
XYLENE: Toxicity to daphnia and other aquatic invertebrates	: LC50 (Water flea (Daphnia magna)): > 100 - < 1,000 mg/l Exposure time: 24 h Test Type: static test
ETHYL BENZENE: Toxicity to fish	: LC50 (Fathead minnow (Pimephales promelas)): 9.1 - 15.6 mg/l Exposure time: 96 h Test Type: static test
	LC50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss)): 4.2 mg/l Exposure time: 96 h Test Type: Renewal
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Water flea (Daphnia magna)): 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
Persistence and degradabilit	v

Persistence and degradability Components:



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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 <u>Components:</u> ACETONE: Partition coefficient: n- octanol/water	: log Pow: -0.24
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 <u>Other adverse effects</u> No data available <u>Product:</u> Additional ecological information <u>Components:</u>	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life.



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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

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

U.S. DOT - ROAD

0.0.1				
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	
				QUANTIT

TDG_RAIL_C



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UN	1950	AEROSOLS	2.1	LIMITED
				QUANTITY

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

			OIATION DANCO	
UN	1950	Aerosols, flammable	2.1	

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	1950	Aerosols, flammable	2.1	

MX_DG

UN	1950	AEROSOLES	2	

*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	Calculated product RQ
		(lbs)	(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

: Fire Hazard Acute Health Hazard Chronic Health Hazard



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SARA 313	METHANOL	67-56-1	22.07 %	
	XYLENE	1330-20-7	20.12 %	
	ETHYL BENZENE	100-41-4	6.03 %	
California Prop 65	WARNING! This product contains a chemical known to the State of California to cause cancer. ETHYL BENZENE 100-41-4		nown to the	
	BENZENE	71-43-2		
	WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.			
	METHANOL	67-56-1		
	TOLUENE	108-88-3		
	BENZENE	71-43-2		
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			
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

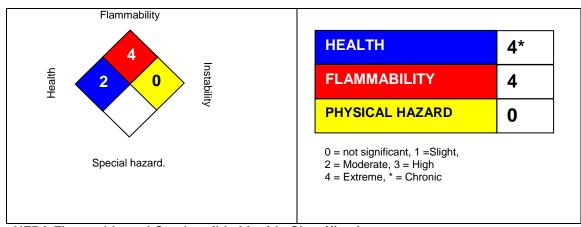
Further information

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NFPA:

HMIS III:

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NFPA Flammable and Combustible Liquids Classification Not applicable

Full text of H-Statements

Highly flammable liquid and vapor.
Flammable liquid and vapor.
Contains gas under pressure; may explode if heated.
Toxic if swallowed.
May be fatal if swallowed and enters airways.
Toxic in contact with skin.
Harmful in contact with skin.
Causes skin irritation.
Causes serious eye irritation.
Toxic if inhaled.
Harmful if inhaled.
May cause respiratory irritation.
May cause drowsiness or dizziness.
Causes damage to organs.
May cause damage to organs through prolonged or repeated exposure.

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).



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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

RTK : Right to Know

WHMIS : Workplace Hazardous Materials Information System