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Valvoline™ SAE 80W-90 HP GEAR OIL 3024		Version: 1.1

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ SAE 80W-90
HP GEAR OIL

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America SDS@valvoline.com	Emergency telephone number 1-800-VALVOLINE Regulatory Information Number 1-800-TEAMVAL Product Information 1-800-TEAMVAL
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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 2A
Skin sensitisation : Category 1
Acute aquatic toxicity : Category 3
Chronic aquatic toxicity : Category 3

GHS Label element

Hazard pictograms : 

Signal word : Warning

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P101 If medical advice is needed, have product container or label at hand.

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P102 Keep out of reach of children.

P103 Read label before use.

Prevention:

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

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

Response:

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

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

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

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

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

Disposal:

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

Other hazards which do not result in classification

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Defatter

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.

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- In case of eye contact : Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : 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)
Dizziness
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
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 : carbon dioxide and carbon monoxide
Hydrocarbons
Oxides of phosphorus
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.
- 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.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Do not breathe vapours/dust.
Do not smoke.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Container hazardous when empty.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

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 LIGHT	64742-62-7	(Mist.)		IN OEL

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NAPHTHENIC		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3	IN OEL

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			Mist.	
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA	5 mg/m3	PY OEL

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		(Inhalable fraction.)	Inhalable fraction.	
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3	HK OEL



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			Mist.	
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL

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		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL



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		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3	ID OEL

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			Mist.	
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3	MY OEL



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			Mist.	
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL

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		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL

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		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL

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		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3	IN OEL

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			Mist.	
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC	64742-62-7	(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL

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		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL
		PSD (Mist.)	10 mg/m3 Mist.	ID OEL
		TWA	5 mg/m3	AU NOEL
		TWA (Inhalable fraction.)	5 mg/m3 Inhalable fraction.	PY OEL
		(Inhalable fraction.)		PY OEL
MINERAL OIL		(Mist.)		AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	AU OEL
		TWA (Mist.)	5 mg/m3 Mist.	NZ OEL
		STEL (Mist.)	10 mg/m3 Mist.	NZ OEL
		(Mist.)		NZ OEL
		TWA (Mist.)	5 mg/m3 Mist.	VN OEL
		STEL (Mist.)	10 mg/m3 Mist.	VN OEL
		(Mist.)		VN OEL
		(Mist.)		IN OEL
		TWA (Mist.)	5 mg/m3 Mist.	IN OEL
		STEL (Mist.)	10 mg/m3 Mist.	IN OEL
		TWA_PH (Mist.)	5 mg/m3 Mist.	PH OEL
		(Mist.)		PH OEL
		TWA (Mist.)	5 mg/m3 Mist.	MY OEL
		(Mist.)		MY OEL
		TWA (Mist.)	5 mg/m3 Mist.	HK OEL
		STEL (Mist.)	10 mg/m3 Mist.	HK OEL
		(Mist.)		HK OEL
		(Mist.)		ID OEL
		NAB (Mist.)	5 mg/m3 Mist.	ID OEL

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Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:
 impervious clothing
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 Discard gloves that show tears, pinholes, or signs of wear.

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 : amber

Odour : No data available

Odour Threshold : No data available

pH : No data available

: No data available

Boiling point/boiling range : > 218.3 °C (1013.333 hPa)

Flash point : > 222 °C Method: Cleveland open cup

Evaporation rate : > 1
 Ethyl Ether

Flammability (solid, gas) : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

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Vapour pressure : < 0.1000000 mmHg

Relative vapour density : > 1AIR=1

Relative density : 0.89 (60.00 °F)

Density : 0.8916 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

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : 146 mm²/s (40 °C)

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.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : carbon dioxide and carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Result: Repeated exposure may cause skin dryness or cracking.

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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

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

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

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

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological information

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

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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.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

UN_DG

Not dangerous goods

***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.

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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
 Brazil. Controlled products for the Army (Decree No. : Neither banned nor restricted
 3665, Annex I)

Brazil. Drug Precursors (Ordinance No. 1.274, : Neither banned nor restricted
 Appendix 1, Lists I - IV)

Other international regulations

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

TSCA : On TSCA Inventory

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

Inventories

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

SECTION 16. OTHER INFORMATION

Further information

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Full text of H-Statements referred to under sections 2 and 3.

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.

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

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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