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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Valvoline™ Multi-Vehicle Multi-Purpose Red Grease
™ Trademark, Valvoline or its subsidiaries, registered in various countries

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

GHS Classification

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms : None

Signal word : None

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

No information available.

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3. COMPOSITION/INFORMATION ON INGREDIENTS


Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
AMINE	122-39-4	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 2A; H319 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1.00

4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- 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 : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : 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 : No symptoms known or expected.

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and effects, both acute and delayed

Notes to physician : No hazards which require special first aid measures.

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

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : 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.

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7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
- Conditions for safe storage : Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- Materials to avoid : No materials to be especially mentioned.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION


Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ASPHALT	8052-42-4	OEL-TWA (Fumes)	0.5 mg/m ³ Fumes (benzene soluble aerosol)	HK OEL
PETROLEUM DISTILLATES	64742-52-5	TWA (Mist)	5 mg/m ³ Mist	PH OEL
		OEL-TWA (Mist)	5 mg/m ³ Mist	HK OEL
		OEL-STEL (Mist)	10 mg/m ³ Mist	HK OEL
DISTILLATES (PETROLEUM)	64742-65-0	TWA (Mist)	5 mg/m ³ Mist	PH OEL
		OEL-TWA (Mist)	5 mg/m ³ Mist	HK OEL
		OEL-STEL (Mist)	10 mg/m ³ Mist	HK OEL

Engineering measures : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

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required.

- Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.
- Skin and body protection : Wear as appropriate:
Safety shoes
- Hygiene measures : General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : gel
- Colour : light brown
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : No data available
- Boiling point/boiling range : 338 °C
- Flash point : 255 °C
- Evaporation rate : No data available
- Flammability (solid, gas) : No data available
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available
- Lower explosion limit / Lower flammability limit : No data available
- Vapour pressure : not determined
- Relative vapour density : No data available
- Relative density : 0.95 (15.6 °C)

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Density : 0.898 g/cm³ (20 °C)

Solubility(ies)
Water solubility : negligible

Solubility in other solvents : No data available

Partition coefficient: n-
octanol/water : No data available

Ignition temperature : > 315 °C

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

Viscosity, kinematic : > 20.5 mm²/s (40 °C)

Oxidizing properties : No data available

10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous
reactions : Product will not undergo hazardous polymerization.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition
products : No hazardous decomposition products are known.


11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate (Rat): 3,019 mg/kg

Acute toxicity estimate : > 5,000 mg/kg

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Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute toxicity estimate : > 2,000 mg/kg
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 40 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method

Acute toxicity estimate : > 40 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method

Acute toxicity estimate : > 40 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method

Acute toxicity estimate : > 40 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method

Acute toxicity estimate : > 20 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method


Acute dermal toxicity : Acute toxicity estimate (Rabbit): 169,492 mg/kg

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

Acute toxicity estimate : > 5,000 mg/kg
 Method: Calculation method

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Acute toxicity estimate : > 2,000 mg/kg
Method: Calculation method

Components:

AMINE:

Acute oral toxicity	: LD50 (Guinea pig): 300 mg/kg
Acute inhalation toxicity	: 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.

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Components:

AMINE:

Result: Slight, transient irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result: No eye irritation

Remarks: Unlikely to cause eye irritation or injury.

Components:

AMINE:

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.


Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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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.

Components:

AMINE:

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

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

AMINE:

Toxicity to daphnia and other aquatic invertebrates : **EC50 (Daphnia magna (Water flea)): 0.27 - 0.36 mg/l**
Exposure time: **48 h**
Test Type: **semi-static test**

Toxicity to algae : **EC50 (Pseudokirchneriella subcapitata (green algae)):**
Estimated 2.17 mg/l
End point: **Growth inhibition**
Exposure time: **72 h**
Method: **OECD Test Guideline 201**

NOEC (Pseudokirchneriella subcapitata (green algae)):
Estimated 0.37 mg/l
End point: **Growth inhibition**
Exposure time: **72 h**
Method: **OECD Test Guideline 201**

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M-Factor (Short-term (acute) aquatic hazard) : 1

1

1

1

M-Factor (Long-term (chronic) aquatic hazard) : 1

1

1

1

No data available

Persistence and degradability

Components:

AMINE:

Biodegradability : Result: **Not readily biodegradable.**
 Biodegradation: **26 %**
 Exposure time: **28 d**
 Method: **OECD Test Guideline 301D**

No data available

Bioaccumulative potential

Components:

AMINE:

Bioaccumulation : Species: **Pimephales promelas (fathead minnow)**
 Bioconcentration factor (BCF): **30**
 Exposure time: **32 d**
 Concentration: **0.0437 mg/l**
 Method: **Flow through**

No data available

Mobility in soil

Components:

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.

Components:

13. DISPOSAL CONSIDERATIONS

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Disposal methods

- General advice : The product should not be allowed to enter drains, water courses or the soil.
- 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.

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.

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.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Control Order (CCO) : Not applicable

Priority Chemical List (PCL) : Not applicable


Other international regulations

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

DSL : All components of this product are on the Canadian DSL

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

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- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- TCSI : Not 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)

16. OTHER INFORMATION

Further information


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Full text of H-Statements

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Other information : 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).

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.

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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