

MATERIAL SAFETY DATA SHEET

VALVOLINE CUMMINS LTD.

Page 001

Date Issued: **June 5, 1999**

MSDS No: **0060699**

Valvoline Power Supreme 15W40

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name : **Valvoline Power Supreme 15W40**

Company

**Valvoline Cummins Ltd.
52, Okhla Industrial Estate,
Phase 3,
New Delhi – 110020**

Telephone Numbers

Emergency: **91-11-5161 3456**

Information: **91-11-5161 3444**

2. COMPOSITION / INFORMATION ON INGREDIENTS

S.No.	Name	CAS No.	Conc. % wt. (typical)	Classification
1.	Highly Refined Mineral Oils	64742- 65-0	80.60	IK *
2.	Additives	-	12.60	
3.	Viscosity Index Improver	-	6.80	

** IK – No Classification required.*

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Exposure is not expected to cause eye irritation or injury.

Skin

Exposure may cause mild skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, and skin burns. Pre-existing skin disorders may be aggravated by exposure to this material.

Swallowing

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

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Inhalation

Exposure is possible under certain conditions of handling and use (for example, during heating, spraying, or stirring). Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits.

Symptoms of Exposure

Gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract) (pre-existing lung disorders, e.g. asthma-like conditions, may be aggravated by exposure to this material), abdominal pain.

Target Organ Effects

No data

Developmental Information

No data

Cancer Information

Used motor oil has been shown to cause skin cancer in laboratory animals continually exposed by repeated applications. Avoid prolonged or repeated skin contact.

Other Health Effects

No data

Primary Route(s) of Entry

No data

4. FIRST AID MEASURES

Eyes

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention

Skin

Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

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Swallowing

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

Note to Physicians

No data

5. FIRE FIGHTING MEASURES

Flash Point

> 230°C (COC)

Explosive Limit

No data

Autoignition Temperature

No data

Hazards Products of Combustion

May form carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

Extinguishing Media

Regular foam, carbon dioxide, dry chemical.

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Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health – 1, Flammability – 1, Reactivity – 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material.

Large Spill

Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. HANDLING AND STORAGE

Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Storage

Not applicable

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Eye Protection

Note required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Skin Protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product. Wear normal work clothing covering arms and legs.

Respiratory Protections

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m³, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (Consult your industrial hygienist).

Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

Exposure Guidelines

Component

PETROLEUM LUBE OIL (64742-65-0)

OSHA VPEL 5.000 mg/m³ – TWA Oil Mist

ACGIH TLV 5.000 mg/m³ – TWA Oil Mist

DETERGENT/DISPERSANT ENGINE OIL PACKAGE

No exposure limits established

VISCOSITY INDEX IMPROVER

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

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Vapor Pressure

(for component) 1.000 mmHg @ 68° F

Specific Vapor Density

> 5.000 @ AIR = 1

Specific Gravity

0.890 @ 15.6°C

Liquid Density

7.390 lbs/gal @ 60.00 F

0.890 kg/l @ 15.60 C

Present Volatiles (Including Water)

No data

Evaporation Rate

< .01 (n-butyl acetate)

Appearance

DRY, CLEAR & BRIGHT

State

LIQUID

Physical Form

No data

Colour

No data

Odor

Characteristic Mineral Oil

pH

No data

Viscosity

< 4500 cP @ 10°C

13.5 – 15.5, cSt @ 100°C

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10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

Mobility

Floats on water Liquid under most environment conditions. If it enters soil, it will absorb to soil particles and will not be mobile.

Degradability

Not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.

Bioaccumulative Potential

Has the potential to bioaccumulate.

Ecotoxicity

Poorly soluble mixture. Product is expected to be practically non-toxic to aquatic organisms, LC/EC50>100 mg/l. May cause physical fouling of aquatic organisms. (LC/EC50 expressed at the nominal amount of product required to prepare aqueous test extract).

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Other Information

Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products.

13. DISPOSAL CONSIDERATION

Waste Management Information

Dispose of in accordance with all applicable local, state and central regulations.

14. TRANSPORT INFORMATION

DOT Information 0 49 CFR 172.101

DOT Description:
Not Regulated

Container / Mode :
CASES / SURFACE – NO EXEMPTIONS

NOS Component:
None

RQ (Reportable Quantity) – 49 CFR 172.101
Not applicable

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15. REGULATORY INFORMATION

CLASSIFICATION

NOT CLASSIFIED	

Composition

R-Phrases

S-Phrases

PETROLEUM PRODUCT

Avoid repeated skin contact

If swallowed, do not bring induce vomiting – seek medical advise

Spare the nature of oil products

Keep out of the reach of children

16. OTHER INFORMATION

Usage and restriction: Lubricant for high-speed diesel engines

Datasheets are developed on the basis of information given by producers/suppliers of inputs and the existing regulations for classification and labelling of chemicals.

This product must be used, handled and applied in accordance with the requirements of the equipment manufacturer's manuals, bulletins and other documentation.

17. DISCLAIMER

The information contained in this data sheet is, and to the best of our knowledge, true and accurate, recommendations are based on presently known facts. It is the responsibility of the user in their own interest to ensure that the appropriate recommendations/precautions are adhered to.