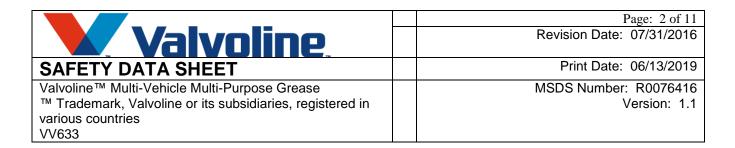


1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Valvoline™ Multi-Vehicle Multi-Purpose Grease ™ Trademark, Valvoline or its subsidiaries, registered in various countries
Product code	:	VV633
Company	:	Valvoline LLC 3499 Blazer Parkway Lexington, KY 40509 United States of America
E-mail address Telephone Telefax		SDS@valvoline.com 1-800-TEAMVAL
Emergency telephone number	:	1-800-VALVOLINE

2. HAZARDS IDENTIFICATION

GHS Classification	
Skin irritation Carcinogenicity	: Category 3 : Category 1B
GHS-Labelling	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: H316 Causes mild skin irritation. H350 May cause cancer.
Precautionary statements	 Prevention: P201 Obtain special instructions before use. P281 Use personal protective equipment as required. Response: P308 + P313 IF exposed or concerned: Get medical advice/ attention. P332 + P313 If skin irritation occurs: Get medical advice/ attention.



3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Concentration
DISTILLATES (PETROLEUM), SOLVENT- DEWAXED HEAVY PARAFFINIC	64742-65-0	>=30 - <60 %
RESIDUAL OILS (PETROLEUM), SOLVENT-DEWAXED	64742-62-7	>=30 - <60 %
ZINC COMPOUNDS	68649-42-3	>=1 - <5 %

4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Get medical attention immediately. Do not leave the victim unattended. Consult a physician. Show this safety data sheet to the doctor in attendance.
First aid measures for different	ex	posure routes
In case of eye contact	:	Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists. Remove contact lenses.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water.
If inhaled	:	Move to fresh air. Call a physician or poison control centre immediately. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen.
If swallowed	:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effects, both acute and delayed (new)	:	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)

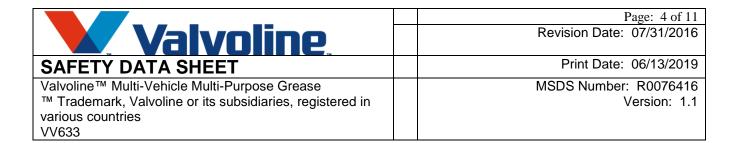


Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities
of mineral oil can produce chronic inflammation of the lungs
(i.e. lipoid pneumonia) that may progress to pulmonary
fibrosis. Symptoms are often subtle and radiological changes
appear worse than clinical abnormalities. Occasionally,
persistent cough, irritation of the upper respiratory tract,
shortness of breath with exertion, fever, and bloody sputum
occur. Inhalation exposure to oil mists below current
workplace exposure limits is unlikely to cause pulmonary abnormalities.

Notes to physician (new) :

No hazards which require special first aid measures.

5. FIREFIGHTING MEASURES		
Suitable extinguishing media	:	ABC powder Carbon dioxide (CO2) Dry chemical Water mist
Unsuitable extinguishing media	:	Halons
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Amines carbon dioxide and carbon monoxide Hydrocarbons hydrogen sulfide oxides of sulfur, nitrogen and phosphorus zinc oxide
Specific extinguishing methods	:	Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. 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. Use personal protective equipment.



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. Evacuate personnel to safe areas.
Environmental precautions	:	Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Large spills should be collected mechanically (remove by pumping) for disposal. Keep in suitable, closed containers for disposal.
Additional advice	:	Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling Technical measures	: Normal measures for preventive fire protection.	
Advice on safe handling	 Do not breathe vapours or spray mist. Avoid exposure - obtain special instructions before use. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. 	
Avoidance of contact	: Strong oxidizing agents	
Storage		
Conditions for safe storage	 Store in original container. Keep containers tightly closed in a dry, cool and well- ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 	
Materials to avoid	: Strong oxidizing agents	
Other data	: Stable under recommended storage conditions.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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Valvoline.	Revision Date: 07/31/2016
SAFETY DATA SHEET	Print Date: 06/13/2019
Valvoline™ Multi-Vehicle Multi-Purpose Grease	MSDS Number: R0076416
™ Trademark, Valvoline or its subsidiaries, registered in	Version: 1.1
various countries	
VV633	

Components	CAS-No.	Value (Form of exposure)	Control parameters / Permissible concentration	Basis
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	64742-65-0	TWA (Inhalable fraction.)	5 mg/m3	PY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	UY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	UY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	EC OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	EC OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	PY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	PY OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	CR OEL
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	CR OEL
MOLYBDENUM DISULFIDE	1317-33-5	(Respirable fraction.)		CR OEL
MOLYBDENUM DISULFIDE	1317-33-5	(Inhalable fraction.)		CR OEL

US. ACGIH Threshold Limit Values

Components	CAS-No.	Value (Form of exposure)	Control parameters / Permissible concentration	Basis
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Respirable fraction.)	3 mg/m3	ACGIH
MOLYBDENUM DISULFIDE	1317-33-5	TWA (Inhalable fraction.)	10 mg/m3	ACGIH

Engineering measures

: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Personal protective equipment					
Respiratory protection	: In the case of vapour formation use a respirator with an approved filter.	1			
Eye protection	: Tightly fitting safety goggles				
Hand protection	: Wear resistant gloves such as:				
Material	: neoprene				
Skin and body protection	: Wear as appropriate: Safety shoes impervious clothing Discard contaminated shoes.				
Hygiene measures	 Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands and face before breaks and immediately after handling the product. 	Э			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste	
Colour	: grey	
Odour	: hydrocarbon-like	
рН	: No data available	
Freezing point	: No data available	
Boiling point	: 260 °C	
Flash point	: 227 °C	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Density	: 0.86 g/cm3 (15.6 °	C)
Solubility(ies)		
Water solubility	: negligible	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	

Valvoline.	Page: 7 of 11 Revision Date: 07/31/2016
SAFETY DATA SHEET	Print Date: 06/13/2019
Valvoline [™] Multi-Vehicle Multi-Purpose Grease [™] Trademark, Valvoline or its subsidiaries, registered in various countries VV633	MSDS Number: R0076416 Version: 1.1

Auto-ignition temperature	: No data available
Thermal decomposition	: No data available

10. STABILITY AND REACTIVITY

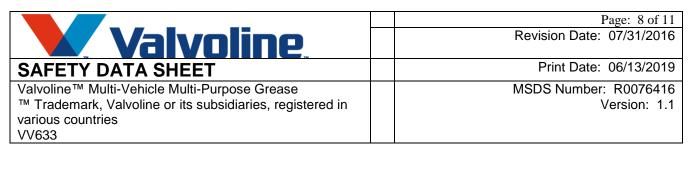
Possibility of hazardous reactions	: No hazards to be specially mentioned.	
	Hazardous polymerisation does not occur.	
Conditions to avoid	: excessive heat	
Incompatible materials	: Strong oxidizing agents	
Hazardous decomposition products	: carbon dioxide and carbon monoxide Hydrocarbons	

11. TOXICOLOGICAL INFORMATION

Product	
Acute oral toxicity	: No data available
Acute inhalation toxicity	: No data available
Acute dermal toxicity	: No data available
Skin corrosion/irritation	: No data available
Serious eye damage/eye irritation	: No data available
Respiratory or skin sensitisation	: No data available

Components:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC: Acute oral toxicity : LD 50 Rat: > 5,000 mg/kg Acute dermal toxicity : LD 50 Rabbit: > 5,000 mg/kg ZINC COMPOUNDS:



Acute oral toxicity	: LD 50 Rat: 2,000 - 5,000 mg/kg
Acute dermal toxicity	: LD 50 Rabbit: > 2,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

No data available

Components:

No data available

Persistence and degradability

Product:

No data available

Components:

No data available

Bioaccumulative potential

Product:

No data available

Components:

No data available

Mobility in soil

Product:

No data available

Components:

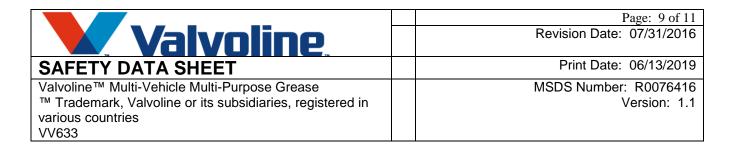
No data available

Other adverse effects

Product:

Ozone-Depletion Potential

: No data available



Components:

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	: Dispose of in accordance with the European Directives on waste and hazardous waste.	
	Do not contaminate ponds, waterways or ditches with chemical or used container. Container hazardous when empty. Dispose of in accordance with local regulations.	
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. Do not burn, or use a cutting torch on, the empty drum. 	

DISPOSAL CONSIDERATIONS

Dispose of in accordance with local regulations.

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

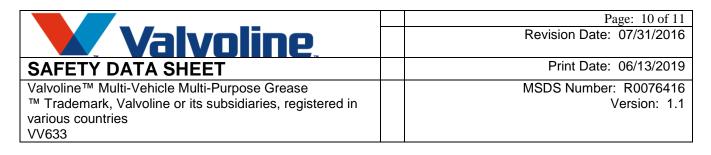
INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

UN_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID



Marine pollutant	no

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

Other international regulations

Notification status

US. Toxic Substances Control Act	: y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic	: y (positive listing)
Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	
Australia. Industrial Chemical (Notification and Assessment) Act	: y (positive listing)
Japan. ENCS - Existing and New Chemical Substances Inventory	: n (Negative listing)
Korea. Toxic Chemical Control Law (TCCL) List	: n (Negative listing)
Philippines. The Toxic Substances and Hazardous and Nuclear	: y (positive listing)
Waste Control Act	
China. Inventory of Existing Chemical Substances	: y (positive listing)

16. OTHER INFORMATION

Further information

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 MSDS has been prepared by Valvoline's Environmental Health and Safety Department.

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