

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

| | | |
|--------------------|-------------------------------|-----------------------------------|
| Ashland | Regulatory Information Number | 1-800-325-3751 |
| P.O. Box 2219 | Telephone | 614-790-3333 |
| Columbus, OH 43216 | Emergency telephone | 1-800-ASHLAND (1-800-274-5263) |

| | |
|-------------------------|--|
| Product name | VALVOLINE® GENERAL MULTIPURPOSE GREASE |
| Product code | VV605 |
| Product Use Description | No data |

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, dark green

CAUTION! PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

Potential Health Effects

Routes of exposure

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin contact

May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:., Skin, lung (for example, asthma-like conditions)

Symptoms

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), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness)

Target Organs

No data

Carcinogenicity

The International Agency for Research on Cancer (IARC) has determined there is sufficient evidence for the carcinogenicity of extracts of steam-refined bitumens, air-refined bitumens and pooled mixtures of steam- and air-refined bitumens in experimental animals. Asphalt products, properly handled as outlined in this MSDS, are not expected to cause cancer in humans. Skin contact, breathing of mist, fumes or vapors should be reduced to a minimum to avoid any ill effects.

Reproductive hazard

There are no data available for assessing risk to the fetus from maternal exposure to this material.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Components | CAS-No. | Concentration |
|--|--------------------|----------------------|
| PETROLEUM DISTILLATE | NJTS# 800986-5245P | >=60-<70% |
| ASPHALT | 8052-42-4 | >=20-<30% |
| OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT | 7620-77-1 | >=10-<15% |
| 1-PROPENE, 2-METHYL SULFURIZED | 68511-50-2 | >=1.5-<5% |

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

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.

Ingestion

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation

First aid is not normally required. If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention.

Notes to physician

Hazards: 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.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water spray, Dry sand, Carbon dioxide (CO₂), Foam, Dry chemical

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

Hazardous combustion products

carbon dioxide and carbon monoxide, Hydrocarbons, sulfur oxides

Precautions for fire-fighting

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Scoop or scrape up. Put in container for recovery or disposal. Wash walking surfaces with detergent and water to reduce slipping hazard.

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Avoid creating and breathing dust. Use dustless systems for handling, storage, and clean up so that airborne dust does not exceed the PEL, if applicable. Use adequate ventilation and dust collection. Practice good housekeeping. Do not permit dust to collect on walls, floors, sills, ledges, machinery, or equipment. Containers of this material

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

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

Store in a cool, dry, ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| PETROLEUM DISTILLATE | | NJTS# 800986-5245P | |
|-----------------------------|---|---------------------------|---------------------|
| OSHA Z1 | Permissible exposure limit | 500 ppm | |
| OSHA Z1 | Permissible exposure limit | 2,000 mg/m3 | |
| OSHA Z1A | time weighted average | 400 ppm | |
| OSHA Z1A | time weighted average | 1,600 mg/m3 | |
| US CA OEL | Time Weighted Average (TWA) Permissible Exposure Limit (PEL): | 400 ppm | |
| US CA OEL | Time Weighted Average (TWA) Permissible Exposure Limit (PEL): | 1,600 mg/m3 | |
| ACGIH | time weighted average | 5 mg/m3 | Mist. |
| ACGIH | Short term exposure limit | 10 mg/m3 | Mist. |
| ACGIH NIC | time weighted average | 0.2 mg/m3 | Inhalable fraction. |
| ASPHALT | | 8052-42-4 | |
| ACGIH | time weighted average | 0.5 mg/m3 | Inhalable fraction. |
| NIOSH | Ceiling Limit Value and Time Period (if specified): | 5 mg/m3 | Fume. |

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

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.

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 normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves such as:
Nitrile rubber

Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------------|---|
| Physical state | liquid |
| Form | paste |
| Colour | dark green |
| Odour | hydrocarbon-like |
| Boiling point/boiling range | 343.00 °C / 649 °F |
| Melting point/range | 351 °F / 177 °C |
| pH | No data |
| Flash point | 440.1 °F / 226.7 °C, Tested according to Directive 92/69/EEC. |
| Evaporation rate | No data |
| Explosion limits | No data |
| Vapour pressure | No data |
| Vapour density | No data |
| Density | 0.89 g/cm ³ @ 60.1 °F / 15.6 °C |
| Solubility | No data |
| Partition coefficient: n- | negligible in water |
| | No data |

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

octanol/water

log Pow

no data available

Autoignition temperature

No data

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatible products

Strong oxidizing agents

Hazardous decomposition products

carbon dioxide and carbon monoxide, Hydrocarbons, Sulphur oxides

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

| | |
|---|--------------------------|
| PETROLEUM DISTILLATE | LD 50 Rat: > 5,000 mg/kg |
| ASPHALT | no data available |
| OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT | no data available |
| 1-PROPENE, 2-METHYL SULFURIZED | no data available |

Acute inhalation toxicity

| | |
|---|-------------------|
| PETROLEUM DISTILLATE | no data available |
| ASPHALT | no data available |
| OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT | no data available |
| 1-PROPENE, 2-METHYL SULFURIZED | no data available |

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

Acute dermal toxicity

| | |
|---|-----------------------------|
| PETROLEUM DISTILLATE | LD 50 Rabbit: > 5,000 mg/kg |
| ASPHALT | no data available |
| OCTADECANOIC ACID, 12-HYDROXY-, MONOLITHIUM SALT | no data available |
| 1-PROPENE, 2-METHYL SULFURIZED | no data available |

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

No data

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922. Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated above) may not reflect package size, 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

California Prop. 65

ASHLAND

SAFETY DATA SHEET

Page: 9
Revision Date: 07/07/2008
Print Date: 1/13/2009
MSDS Number: R0076417
Version: 1.6

VALVOLINE® GENERAL
MULTIPURPOSE GREASE VV605

WARNING! This product contains a chemical known in the State of California to cause cancer.

ASPHALT

SARA Hazard Classification Acute Health Hazard
 Chronic Health Hazard

SARA 313 Component(s)

Reportable quantity - Components

| | | |
|--|--------------------|------|
| PETROLEUM DISTILLATE | NJTS# 800986-5245P | none |
| ASPHALT | 8052-42-4 | none |
| OCTADECANOIC ACID, 12- HYDROXY-, MONOLITHIUM SALT | 7620-77-1 | none |
| 1-PROPENE, 2-METHYL SULFURIZED | 68511-50-2 | none |

| | Health | Flammability | Reactivity | Other |
|------|--------|--------------|------------|-------|
| HMIS | 1 | 1 | 0 | |
| NFPA | 1 | 1 | 0 | |

16. 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 Ashland's Environmental Health and Safety Department (1-800-325-3751).