

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

SAP Material No: NM2300

General or Generic ID: AUTOMOTIVE CHEMICAL

Company

The Valvoline Company

P.O. Box 14000

Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263

Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
SILICON DIOXIDE	14808-60-7	39.0- 49.0
ALIPHATIC PETROLEUM DISTILLATES	64742-47-8	20.0- 30.0
TALL OIL	61790-12-3	0.0- 9.0
PINE OIL	8002-09-3	0.0- 7.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

Skin

May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 002

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Symptoms of Exposure

stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

Target Organ Effects

No data

Developmental Information

No data

Cancer Information

The International Agency for Research on Cancer (IARC) and the National Toxicology Program have determined that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite. In addition, IARC has determined that there is sufficient evidence for the carcinogenicity of quartz and cristobalite in experimental animals. Among individuals with silicosis, lung cancer occurs more frequently in those who smoke.

Other Health Effects

No data

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 003

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Primary Route(s) of Entry
No data

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

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

Swallowing

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

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

This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 004

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

5. FIRE FIGHTING MEASURES

Flash Point

.0 F (-17.7 C)

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

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 - 2, Reactivity - 0

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

6. ACCIDENTAL RELEASE MEASURES

Small Spill

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

Large Spill

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. 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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 006

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Skin Protection

Wear resistant gloves such as: neoprene, nitrile rubber, To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

SILICON DIOXIDE (14808-60-7)

OSHA VPEL 0.100 mg/m³ - TWA respirable dust

ACGIH TLV 0.100 mg/m³ - TWA (this TLV is for the respirable fraction of dust)

ALIPHATIC PETROLEUM DISTILLATES (64742-47-8)

ACGIH TLV 200.000 mg/m³ - TWA ((Skin))

TALL OIL (61790-12-3)

No exposure limits established

PINE OIL (8002-09-3)

No exposure limits established

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 007

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 212.0 F (100.0 C) @ 760 mmHg

Vapor Pressure

(for component) 17.500 mmHg @ 68.00 F

Specific Vapor Density

> 1.000 @ AIR=1

Specific Gravity

No data

Liquid Density

No data

Percent Volatiles (Including Water)

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

EMULSION

Color

UNKNOWN

Odor

No data

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 008

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

pH

9.0 - 10.0

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

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

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 009

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire(X) Reactive() Sudden

Release of Pressure()

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

Not determined

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 010

Date Prepared: 10/14/03

Date Printed: 06/01/06

MSDS No: 503.0173245-004.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

State and Local Regulations

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

SILICON DIOXIDE

New Jersey RTK Label Information

SILICA, QUARTZ 14808-60-7

PINE OIL 8002-09-3

Pennsylvania RTK Label Information

QUARTZ (SIO2) 14808-60-7

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.

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

SAP Material No: NM2300

General or Generic ID: AUTOMOTIVE CHEMICAL

Company

The Valvoline Company

P.O. Box 14000

Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263

Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
SILICON DIOXIDE	14808-60-7	39.0- 49.0
ALIPHATIC PETROLEUM DISTILLATES	64742-47-8	20.0- 30.0
TALL OIL	61790-12-3	0.0- 9.0
PINE OIL	8002-09-3	0.0- 7.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

Skin

May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin.

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 002

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Swallowing

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Symptoms of Exposure

stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), and death.

Target Organ Effects

No data

Developmental Information

No data

Cancer Information

The International Agency for Research on Cancer (IARC) and the National Toxicology Program have determined that there is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite. In addition, IARC has determined that there is sufficient evidence for the carcinogenicity of quartz and cristobalite in experimental animals. Among individuals with silicosis, lung cancer occurs more frequently in those who smoke.

Other Health Effects

No data

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 003

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Primary Route(s) of Entry
No data

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

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

Swallowing

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

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

This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin.

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 004

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

5. FIRE FIGHTING MEASURES

Flash Point

.0 F (-17.7 C)

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, other flames and ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

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 - 2, Reactivity - 0

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

6. ACCIDENTAL RELEASE MEASURES

Small Spill

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

Large Spill

Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. 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.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 006

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Skin Protection

Wear resistant gloves such as: neoprene, nitrile rubber, To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Exposure Guidelines

Component

SILICON DIOXIDE (14808-60-7)

OSHA VPEL 0.100 mg/m3 - TWA respirable dust

ACGIH TLV 0.025 mg/m3 - TWA

ALIPHATIC PETROLEUM DISTILLATES (64742-47-8)

OSHA VPEL 5.000 mg/m3 - TWA

ACGIH TLV 200.000 mg/m3 - TWA ((Skin))

TALL OIL (61790-12-3)

No exposure limits established

PINE OIL (8002-09-3)

OTHER LIMIT 100.000 ppm - TWA

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 007

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for component) 212.0 F (100.0 C)

Vapor Pressure

(for component) 17.500 mmHg

Specific Vapor Density

> 1.000

Specific Gravity

No data

Liquid Density

No data

Percent Volatiles (Including Water)

No data

Evaporation Rate

Appearance

No data

State

Physical Form

Color

Odor

No data

pH

9.0 - 10.0

mac2300

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 008

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

No data

12. ECOLOGICAL INFORMATION

No data

13. DISPOSAL CONSIDERATION

Waste Management Information

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

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

Not Regulated

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 009

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

CERCLA RQ - 40 CFR 302.4

None

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2

Immediate(X) Delayed(X) Fire(X) Reactive() Sudden Release of Pressure()

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

Not determined

State and Local Regulations

California Proposition 65

The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the state of California to cause cancer.

SILICON DIOXIDE

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 010

Date Prepared: 06/19/06

Date Printed: 07/03/06

MSDS No: 503.0173245-005.001

MAC'S HEAVY DUTY PASTE RUBBING COMPOUND

New Jersey RTK Label Information

SILICA, QUARTZ

14808-60-7

PINE OIL

8002-09-3

Pennsylvania RTK Label Information

QUARTZ (SIO2)

14808-60-7

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.

