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Mac

MATERIAL SAFETY DATA SHEET

The Valvoline Company

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Date Prepared: 01/14/02

Date Printed: 11/01/04

MSDS No: 503.0215810-004.005

MAC'S RUBBERIZED UNDERCOAT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: MAC'S RUBBERIZED UNDERCOAT

SAP Material No: NM8200

General or Generic ID: AUTOMOTIVE CHEMICAL

Company

Telephone Numbers

The Valvoline Company

Emergency: 1-800-274-5263

P.O. Box 14000

Lexington, KY 40512

Information: 1-859-357-7206

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
CALCIUM CARBONATE	471-34-1	14.0- 24.0
ALIPHATIC PETROLEUM DISTILLATES	64742-88-7	6.0- 16.0
ISOBUTANE	75-28-5	4.0- 14.0
PETROLEUM ASPHALT	8052-42-4	3.0- 13.0
PROPANE COMMERCIAL GRADE	74-98-6	1.0- 11.0
ALUMINUM SILICATE	1332-58-7	0.0- 10.0
METHYL ALCOHOL	67-56-1	2.0- 2.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation. Additional symptoms of eye exposure may include: blurred vision

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Skin

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

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

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

spleen damage, Overexposure to this material (or its components has been suggested as a cause of the following effects in humans

and may aggravate preexisting disorders of these organs: central nervous system effects, visual impairment

Developmental Information

No data

Cancer Information

No data

Other Health Effects

No data

Primary Route(s) of Entry

Inhalation, Skin contact

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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 product contains methanol which can cause intoxication and central nervous system depression. Methanol is metabolized to formic acid and formaldehyde. These metabolites can cause metabolic acidosis, visual disturbances and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. 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

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5. FIRE FIGHTING MEASURES

Flash Point

69.0 F (20.5 C) TCC

Explosive Limit

(for product) Lower 1.0 Upper 36.5

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, various hydrocarbons

Fire and Explosion Hazards

Material is highly volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other 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 - 3, Flammability - 4, Reactivity - 0

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6. ACCIDENTAL RELEASE MEASURES

Small Spill

Allow to evaporate. Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks  
Absorb liquid on vermiculite, floor absorbent or other absorbent material

Large Spill

Allow to evaporate. Persons not wearing protective equipment should be excluded from area until leak has been repaired. Soak up spill with vermiculite, perlite or other absorbent material  
Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks)

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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. All five gallon pails and larger metal containers including tank cars and tank trucks should be grounded and/or bonded when material is transferred

Storage

Not applicable

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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

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Skin Protection

Wear resistant gloves such as: 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

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CALCIUM CARBONATE (471-34-1

No exposure limits established

ALIPHATIC PETROLEUM DISTILLATES (64742-88-7

No exposure limits established

ISOBUTANE (75-28-5

No exposure limits established

PETROLEUM ASPHALT (8052-42-4

ACGIH TLV 5.000 mg/m3 - TWA

PROPANE COMMERCIAL GRADE (74-98-6

OSHA VPEL 1000.000 ppm - TWA

ACGIH TLV 2500.000 ppm - TWA

ALUMINUM SILICATE (1332-58-7

OSHA VPEL 5.000 mg/m3 - TWA respirable fraction

OSHA VPEL 10.000 mg/m3 - TWA total dust

ACGIH TLV 2.000 mg/m3 - TWA respirable dust (The value is for total dust containing no asbestos and < 1% crystalline silica

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METHYL ALCOHOL (67-56-1

OSHA VPEL 200.000 ppm - TWA ((Skin)

OSHA VPEL 250.000 ppm - STEL ((Skin)

ACGIH TLV 200.000 ppm - TWA ((Skin)

ACGIH TLV 250.000 ppm - STEL ((Skin)

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) .0 - 395.0 F (-17.7 - 201.6 C) @ 760.00 mmHg

Vapor Pressure

No data

Specific Vapor Density

> 1.000 @ AIR=1

Specific Gravity

.980 @ 77.00 F

Liquid Density

8.180 lbs/gal @ 77.00 F

.980 kg/l @ 25.00 C

Percent Volatiles (Including Water

No data

Evaporation Rate

FASTER THAN ETHYL ETHER

Appearance

Not applicable

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State

LIQUID

Physical Form

AEROSOL

Color

No data

Odor

No data

pH

No data

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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, various  
hydrocarbons

Chemical Stability

Stable

Incompatibility

Avoid contact with: strong oxidizing agents, temperatures above  
100 F (38 C)

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11. TOXICOLOGICAL INFORMATION

No data

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12. ECOLOGICAL INFORMATION

No data

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13. DISPOSAL CONSIDERATION

Waste Management Information

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

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14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description

CONSUMER COMMODITY, ORM-D

Container/Mode

CASES/SURFACE - ORM-D EXCEPTION

NOS Component

None

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

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15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES) The intentional ingredients of this product are listed

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CERCLA RQ - 40 CFR 302.4

Component	Component
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METHYL ALCOHOL	5000
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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

Section 313 Component(s)	CAS Number
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METHANOL	67-56-1
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International Regulations

Inventory Status

Not determined

State and Local Regulations

California Proposition 65

None

New Jersey RTK Label Information

ASPHALT FUMES	8052-42-4
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PROPANE	74-98-6
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METHYL ALCOHOL	67-56-1
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Pennsylvania RTK Label Information

ASPHALT	8052-42-4
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PROPANE	74-98-6
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KAOLIN

1332-58-7

METHANOL

67-56-1

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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

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