

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 10/13/05

Date Printed: 09/02/06

MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: TOYOTA SPRAY WAX - AE498

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)
LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)	64742-89-8	8.0- 18.0
ALIPHATIC PETROLEUM DISTILLATES	64741-66-8	8.0- 18.0
SILICONE		1.5- 12.0
OCTAMETHYLCYCLOTETRASIOXANE	556-67-2	1.0- 9.0
POLY (DIMETHYLSIOXANE)	63148-62-9	1.0- 7.0
POLYOXYALKYLENES	68937-55-3	1.0- 6.0
DECAMETHYLCYLCOPENTASIOXANE	541-02-6	1.0- 6.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

May cause mild eye irritation.

Skin

May cause mild skin irritation. Prolonged or repeated contact may dry and crack the skin. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 002

Date Prepared: 10/13/05

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MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

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 usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

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) and other central nervous system effects, difficult breathing, convulsions.

Target Organ Effects

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans.

Developmental Information

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

Cancer Information

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 003

Date Prepared: 10/13/05

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TOYOTA SPRAY WAX - AE498

Other Health Effects

When heated to temperatures above 150 degrees C in the presence of air, this product can form formaldehyde vapors. Formaldehyde has been identified as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) and the Occupational Safety and Health Administration (OSHA). Formaldehyde is irritating to the eyes, nose, throat, and airways, and can cause an allergic reaction (causes narrowing of the air passages of the lungs, sweating, flushing, hives, rapid heart rate, and lowered blood pressure). In addition, formaldehyde can cause an allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). It is harmful if inhaled, swallowed or absorbed through skin.

Primary Route(s) of Entry

Inhalation, Skin absorption, Skin contact, Eye contact, Ingestion.

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.

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.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 004

Date Prepared: 10/13/05

Date Printed: 09/02/06

MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

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, lung (for example, asthma-like conditions).

5. FIRE FIGHTING MEASURES

Flash Point

< 68.0 F (20.0 C)

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, formaldehyde, hydrogen, silicon oxides, various hydrocarbons.

Fire and Explosion Hazards

Vapors are heavier than air and may travel along the ground or may 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.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005

Date Prepared: 10/13/05

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MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

Extinguishing Media

alcohol foam, water fog, 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 - 2, Flammability - 3, Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Small Spill

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. Persons not wearing proper personal protective equipment should be excluded from area of spill.

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. Eliminate all ignition sources (flares, flames, including pilot lights, electrical sparks).

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. Precautions during use: avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 006

Date Prepared: 10/13/05

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MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage

Store in closed containers in a dry, well-ventilated area. Do not store near extreme heat, open flame, or sources of ignition.

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.

Skin Protection

Wear resistant gloves (consult your safety equipment supplier). 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.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 007

Date Prepared: 10/13/05

Date Printed: 09/02/06

MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

Engineering Controls

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

Exposure Guidelines

Component

LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM) (64742-89-8)

OSHA VPEL 300.000 ppm - TWA

OSHA VPEL 400.000 ppm - STEL

ACGIH TLV 300.000 ppm - TWA

ALIPHATIC PETROLEUM DISTILLATES (64741-66-8)

No exposure limits established

SILICONE

No exposure limits established

OCTAMETHYLCYCLOTETRASIOXANE (556-67-2)

OTHER LIMIT 10.000 ppm - TWA

POLY(DIMETHYLSIOXANE) (63148-62-9)

No exposure limits established

POLYOXYALKYLENES (68937-55-3)

No exposure limits established

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

OTHER LIMIT 10.000 ppm - TWA

Provide adequate ventilation to control formaldehyde exposures to within the OSHA permissible exposure limits of 0.75 ppm (TWA) and 2 ppm (STEL) or 0.3 ppm (ACGIH ceiling).

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) > 150.0 F (65.5 C) @ 760.00 mmHg

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 008

Date Prepared: 10/13/05

Date Printed: 09/02/06

MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

Vapor Pressure

(for component) < 5.000 mmHg

Specific Vapor Density

No data

Specific Gravity

.907 @ 60.00 F

Liquid Density

7.570 lbs/gal @ 60.00 F

7.570 lbs/gal @ 60.00 F

Percent Volatiles (Including Water)

No data

Evaporation Rate

No data

Appearance

No data

State

LIQUID

Physical Form

No data

Color

WHITE

Odor

SOLVENT

pH

No data

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 009

Date Prepared: 10/13/05

Date Printed: 09/02/06

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TOYOTA SPRAY WAX - AE498

Hazardous Decomposition

May form: carbon dioxide and carbon monoxide, formaldehyde, hydrogen, silicon oxides, 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. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

14. TRANSPORT INFORMATION

DOT Information - 49 CFR 172.101

DOT Description:

FLAMMABLE LIQUIDS, N.O.S., 3, UN1993, II

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 010

Date Prepared: 10/13/05

Date Printed: 09/02/06

MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

PETROLEUM DISTILLATES

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

None

New Jersey RTK Label Information

NAPHTHA, SOLVENT

64742-89-8

Pennsylvania RTK Label Information

LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLE

64742-89-8

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 011

Date Prepared: 10/13/05

Date Printed: 09/02/06

MSDS No: 525.0405474-001.002

TOYOTA SPRAY WAX - AE498

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.