

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 02/06/06

Date Printed: 09/02/06

MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: HANDS-OFF - AE336

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) |
|--------------------------------------|------------|---------------|
| SURFACTANT | 9016-45-9 | 1.0- 11.0 |
| TKPP ANH GR PRA | 7320-34-5 | 1.0- 9.0 |
| SODIUM C14-16 ALPHA OLEFIN SULFONATE | 68439-57-6 | 1.0- 9.0 |
| CHELATING AGENT | 64-02-8 | 1.0- 9.0 |
| SURFACTANT | | 1.0- 8.0 |
| SODIUM METASILICATE PENTAHYDRATE | 6834-92-0 | 1.0- 7.0 |

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Material is corrosive to eyes. May cause burns.

Skin

Can cause skin burns and other permanent skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects), 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: 02/06/06

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MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

Swallowing

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation, burns and tissue damage. Shock may occur. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Breathing this material may be harmful or fatal. May cause severe irritation and burns to the nose, throat, and respiratory tract.

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), cough, difficult breathing, lung damage.

Target Organ Effects

Frequent ingestion of silicates over long periods of time is associated with the formation of stones in the kidney and urinary tract in humans. Studies with rabbits indicate that sustained, occluded skin contact with undiluted surfactant may result in the development of inflammatory changes in the lung. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: mild, reversible liver effects, kidney damage.

Developmental Information

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

Cancer Information

There is no information available. The chance of this material causing cancer is unknown. 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

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MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

Other Health Effects

No data

Primary Route(s) of Entry

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

4. FIRST AID MEASURES

Eyes

If material gets into the eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin

Immediately flush skin with water for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash clothing before reuse and decontaminate or discard contaminated shoes.

Swallowing

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. 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, lung (for example, asthma-like conditions), kidneys.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 004

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HANDS-OFF - AE336

5. FIRE FIGHTING MEASURES

Flash Point

No data

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, phosgene, sulfur oxides.

Fire and Explosion Hazards

No data

Extinguishing Media

alcohol foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions

No special precautions necessary when fighting fires involving this product.

NFPA Rating

Health - 2, Flammability - 1, Reactivity - 1

6. ACCIDENTAL RELEASE MEASURES

Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill. Flush area with water.

Large Spill

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Spills of this material are very slippery. The area should be thoroughly flushed with water and scrubbed to remove residue. If slipperiness remains apply more dry-sweeping compound. Same method as small spill.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005

Date Prepared: 02/06/06

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MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

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

Keep containers closed when not in use.

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).

Respiratory Protections

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (Consult your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

Not required under normal conditions of use. However, if unusual operating conditions exist, then provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL/TLV (s).

Exposure Guidelines

Component

SURFACTANT (9016-45-9)

No exposure limits established

TKPP ANH GR PRA (7320-34-5)

No exposure limits established

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 006

Date Prepared: 02/06/06

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MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

SODIUM C14-16 ALPHA OLEFIN SULFONATE (68439-57-6)

No exposure limits established

CHELATING AGENT (64-02-8)

No exposure limits established

SURFACTANT

No exposure limits established

SODIUM METASILICATE PENTAHYDRATE (6834-92-0)

No exposure limits established

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

No data

Vapor Pressure

(for component) < .010 mmHg

Specific Vapor Density

No data

Specific Gravity

1.070 @ 70.00 F

Liquid Density

8.930 lbs/gal @ 70.00 F

8.930 lbs/gal @ 70.00 F

Percent Volatiles (Including Water)

No data

Evaporation Rate

No data

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 007

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Appearance

No data

State

LIQUID

Physical Form

No data

Color

YELLOW

Odor

No data

pH

12.0 - 13.0

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

No data

Chemical Stability

Stable.

Incompatibility

Avoid contact with: acids, aluminum, ammonium salts, lead, tin, water, zinc, Can react with chemically reactive metals such as aluminum, zinc, magnesium, copper etc. to release hydrogen gas which can form explosive mixtures with air. This product should not be used in conjunction with trimethylol propane or trimethylol propane-derived products. There is a possibility that bicyclic phosphates or phosphites can be produced as a result of the thermal decomposition of this product in combination with trimethylol propane, trimethylol propane-derived products or their corresponding trimethylol propane alkane homologs. Bicyclic phosphates and phosphites are a class of materials with acute neurotoxic properties which produce characteristic convulsive seizures in test animals.

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 008

Date Prepared: 02/06/06

Date Printed: 09/02/06

MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

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:

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.,8,UN3266,II

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

SODIUM METASILICATE PENTAHYDRATE

RQ (Reportable Quantity) - 49 CFR 172.101

Not applicable

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status

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

Continued on next page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 009

Date Prepared: 02/06/06

Date Printed: 09/02/06

MSDS No: 505.0391031-002.001

HANDS-OFF - AE336

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() 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

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.