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TO: (517)-335-4887

FROM: VALVMSDS@ASHLAND.COM

SUBJ: (517)-335-4887 14:34 ATTN: MATT WILLIAMS

XPEDITE REFERENCE NUMBER: 21095603

ORIGINATOR REFERENCE NUMBER:

**TO: ATTN: MATT WILLIAMS**

**FROM: Jodi**

**SUBJECT: REQUESTED MATERIAL SAFETY DATA SHEETS**

**MSDS(S) REQUESTED FOR: ULTRAMAX AW #15**

**ADDITIONAL COMMENTS:**

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001  
Date Prepared: 01/14/02  
Date Printed: 07/09/02  
MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ULTRAMAX AW #15

General or Generic ID: PETROLEUM BASED-LUBRICATING OIL

Company

The Valvoline Company  
P.O. Box 14000  
Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263  
Information: 1-859-357-7206

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
PETROLEUM DISTILLATES	64741-88-4	48.0- 58.0
PETROLEUM LUBE OIL	64742-65-0	41.0- 51.0

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3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Unlikely to cause eye irritation or injury.

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.

Inhalation

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

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**MATERIAL SAFETY DATA SHEET**

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**Symptoms of Exposure**

stomach or intestinal upset (nausea, vomiting, diarrhea),  
irritation (nose, throat, airways), pain in the abdomen.

**Target Organ Effects**

No data

**Developmental Information**

No data

**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

No data

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**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**

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

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**MATERIAL SAFETY DATA SHEET**

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ULTRAMAX AW #15

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**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**

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**

400.0 F (204.4 C)

**Explosive Limit**

No data

**Autoignition Temperature**

No data

**Hazardous Products of Combustion**

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons.

**Fire and Explosion Hazards**

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

**Extinguishing Media**

regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions**

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. 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.

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 004

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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**NFPA Rating**

Health - 1, Flammability - 1, Reactivity - 0

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**6. ACCIDENTAL RELEASE MEASURES**

**Small Spill**

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

**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. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

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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.

**Storage**

Not applicable

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eye Protection**

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 005

Date Prepared: 01/14/02

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**Skin Protection**

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product., Wear normal work clothing covering arms and legs..

**Respiratory Protections**

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

**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

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PETROLEUM DISTILLATES (64741-88-4)

OSHA VPEL 5.000 mg/m3 - TWA

ACGIH TLV 5.000 mg/m3 - TWA

PETROLEUM LUBE OIL (64742-65-0)

OSHA VPEL 5.000 mg/m3 - TWA Oil Mist

ACGIH TLV 5.000 mg/m3 - TWA Oil Mist

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point**

(for product) > 425.0 F (218.3 C) @ 760.00 mmHg

**Vapor Pressure**

(for component) < .100 mmHg @ 68.00 F

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**MATERIAL SAFETY DATA SHEET**

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ULTRAMAX AW #15

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Specific Vapor Density  
No data

Specific Gravity  
.874 @ 60.00 F

Liquid Density  
7.280 lbs/gal @ 60.00 F  
.874 kg/l @ 15.60 C

Percent Volatiles (Including Water)  
No data

Evaporation Rate  
SLOWER THAN ETHYL ETHER

Appearance  
DRY, CLEAR & BRIGHT

State  
LIQUID

Physical Form  
No data

Color  
No data

Odor  
No data

pH  
Not applicable

Viscosity  
30.0 - 35.0 cst @ 40 C

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**10. STABILITY AND REACTIVITY**

Hazardous Polymerization  
Product will not undergo hazardous polymerization.

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

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Date Prepared: 01/14/02

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MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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**Hazardous Decomposition**

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons.

**Chemical Stability**

Stable.

**Incompatibility**

Avoid contact with: strong oxidizing agents.

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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:

Not Regulated

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

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**MATERIAL SAFETY DATA SHEET**

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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.

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( ) Fire( ) Reactive( ) Sudden  
Release of Pressure( )

SARA 313 Components - 40 CFR 372.65  
None

**International Regulations**

Inventory Status  
DSL (CANADA) The intentional ingredients of this product are listed.

**State and Local Regulations**

California Proposition 65  
None

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**MATERIAL SAFETY DATA SHEET**

**The Valvoline Company**

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**Date Prepared: 01/14/02**

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**MSDS No: 505.0074103-008.009**

**ULTRAMAX AW #15**

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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.**

**Last Page**

**SOURCE:ASHLAND INC WTR**

**EASYWTR**

FAX DELIVERY

27 TOTAL PAGES INCLUDING COVER

RELAYED VIA XPEDITE SYSTEMS INC

TO: (517)-335-4887

FROM: CHEMMSDS@ASHLAND.COM

SUBJ: (517)-335-4887 15:27 MATT WILLIAMS

XPEDITE REFERENCE NUMBER: 21113515

ORIGINATOR REFERENCE NUMBER:

**TO: MATT WILLIAMS**

**FROM: Katrina Theil  
Ashland Inc. MSDS Center  
Mon-Fri 8am-4:45pm  
PH: (614)790-4612**

**SUBJECT: REQUESTED MATERIAL SAFETY DATA SHEETS**

**MSDS(S) REQUESTED FOR: ULTRAMAX AW #15  
PROMAX Q 1013  
PROMAX H-3**

**ADDITIONAL COMMENTS:**

MATERIAL SAFETY DATA SHEET

Ashland

Page 001  
Date Prepared: 01/14/02  
Date Printed: 07/09/02  
MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ULTRAMAX AW #15

General or Generic ID: PETROLEUM BASED-LUBRICATING OIL

Company

Ashland  
Ashland Distribution Co. &  
Ashland Specialty Chemical Co.  
P. O. Box 2219  
Columbus, OH 43216  
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
PETROLEUM DISTILLATES	64741-88-4	48.0- 58.0
PETROLEUM LUBE OIL	64742-65-0	41.0- 51.0

---

3. HAZARDS IDENTIFICATION

Potential Health Effects

- Eye**  
Unlikely to cause eye irritation or injury.
- 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.

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MATERIAL SAFETY DATA SHEET

Ashland

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Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 505.0074103-00B.009

ULTRAMAX AW #15

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**Inhalation**

It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying, or stirring). Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

**Symptoms of Exposure**

stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), pain in the abdomen.

**Target Organ Effects**

No data

**Developmental Information**

No data

**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

No data

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**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.

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MATERIAL SAFETY DATA SHEET

Ashland

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Date Prepared: 01/14/02

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ULTRAMAX AW #15

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Swallowing

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim 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

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

400.0 F (204.4 C)

Explosive Limit

No data

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons.

Fire and Explosion Hazards

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Dense smoke may be generated while burning.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

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**MATERIAL SAFETY DATA SHEET**

Ashland

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Date Prepared: 01/14/02

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MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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**Fire Fighting Instructions**

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. 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 - 1, Reactivity - 0

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**6. ACCIDENTAL RELEASE MEASURES**

**Small Spill**

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

**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. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

---

**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.

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MATERIAL SAFETY DATA SHEET

Ashland

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Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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Storage

Not applicable

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Skin Protection

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product., Wear normal work clothing covering arms and legs..

Respiratory Protections

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

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 (#).

Exposure Guidelines

Component

PETROLEUM DISTILLATES (64741-88-4)

OSHA VPEL 5.000 mg/m3 - TWA

ACGIH TLV 5.000 mg/m3 - TWA

PETROLEUM LUBE OIL (64742-65-0)

OSHA VPEL 5.000 mg/m3 - TWA Oil Mist

ACGIH TLV 5.000 mg/m3 - TWA Oil Mist

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MATERIAL SAFETY DATA SHEET

Ashland

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Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) > 425.0 F (218.3 C) @ 760.00 mmHg

Vapor Pressure

(for component) < .100 mmHg @ 68.00 F

Specific Vapor Density

No data

Specific Gravity

.874 @ 60.00 F

Liquid Density

7.280 lbs/gal @ 60.00 F

.874 kg/l @ 15.60 C

Percent Volatiles (Including Water)

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

DRY, CLEAR & BRIGHT

State

LIQUID

Physical Form

No data

Color

No data

Odor

No data

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**MATERIAL SAFETY DATA SHEET**

Ashland

Page 007

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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pH

Not applicable

Viscosity

30.0 - 35.0 cst @ 40 C

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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, oxides of sulfur, nitrogen and phosphorus, various hydrocarbons.

**Chemical Stability**

Stable.

**Incompatibility**

Avoid contact with: strong oxidizing agents.

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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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MATERIAL SAFETY DATA SHEET

Ashland

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Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 505.0074103-008.009

ULTRAMAX AW #15

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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

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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.

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( ) Fire( ) Reactive( ) Sudden  
Release of Pressure( )

SARA 313 Components - 40 CFR 372.65

None

International Regulations

Inventory Status

DSL (CANADA) The intentional ingredients of this product are listed.

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**MATERIAL SAFETY DATA SHEET**

**Ashland**

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**Date Prepared: 01/14/02**

**Date Printed: 07/09/02**

**MSDS No: 505.0074103-008.009**

**ULTRAMAX AW #15**

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**State and Local Regulations**  
**California Proposition 65**  
**None**

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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.**

MATERIAL SAFETY DATA SHEET

Ashland

Page 001

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PROMAX Q 1013

General or Generic ID: CHLORINATED HYDROCARBON

Company

Ashland  
Ashland Distribution Co. &  
Ashland Specialty Chemical Co.  
P. O. Box 2219  
Columbus, OH 43216  
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
HALOGENATED PARAFFIN	Trade Secret	100.0

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3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

Skin

May cause mild skin irritation.

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.

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**MATERIAL SAFETY DATA SHEET**

Ashland

Page 002

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

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**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 is not likely to be harmful.

**Symptoms of Exposure**

stomach or intestinal upset (nausea, vomiting, diarrhea).

**Target Organ Effects**

No data

**Developmental Information**

No data

**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

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.

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PROMAX Q 1013

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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, 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

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. 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.

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5. FIRE FIGHTING MEASURES

Flash Point

465.0 F (240.5 C)

Explosive Limit

Not applicable

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons.

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MATERIAL SAFETY DATA SHEET

Ashland

Page 004

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

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**Fire and Explosion Hazards**

No special fire hazards are known to be associated with this product.

**Extinguishing Media**

regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions**

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. 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 - 1, Reactivity - 0

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**6. ACCIDENTAL RELEASE MEASURES**

**Small Spill**

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

**Large Spill**

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

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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.

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MATERIAL SAFETY DATA SHEET

Ashland

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Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

Storage

Not applicable

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

Skin Protection

Wear resistant gloves (consult your safety equipment supplier)., Wear normal work clothing covering arms and legs..

Respiratory Protections

Not required under normal conditions of use.

Engineering Controls

Not required under normal conditions of use.

Exposure Guidelines

Component

HALOGENATED PARAFFIN

No exposure limits established

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9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) 350.0 F (176.6 C) @ 760.00 mmHg

Vapor Pressure

No data

Specific Vapor Density

> 1.000 @ AIR-1

Continued on next page

**MATERIAL SAFETY DATA SHEET**

Ashland

Page 006

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**Specific Gravity**

1.190 @ 77.00 F

**Liquid Density**

9.900 lbs/gal @ 77.00 F

1.190 kg/l @ 25.00 C

**Percent Volatiles (Including Water)**

No data

**Evaporation Rate**

SLOWER THAN ETHYL ETHER

**Appearance**

No data

**State**

LIQUID

**Physical Form**

HOMOGENEOUS SOLUTION

**Color**

CLEAR, G COLOR 4

**Odor**

No data

**pH**

Not applicable

---

**10. STABILITY AND REACTIVITY**

**Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**Hazardous Decomposition**

May form: carbon dioxide and carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons.

Continued on next page

**MATERIAL SAFETY DATA SHEET**

Ashland

Page 007

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**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

**Container/Mode:**  
DRUMS/SURFACE - NO EXCEPTIONS

**NOS Component:**  
None

Continued on next page

**MATERIAL SAFETY DATA SHEET**

Ashland

Page 008

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

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.

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( ) 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.

Last page

MATERIAL SAFETY DATA SHEET

Ashland

Page 001

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PROMAX H-3

General or Generic ID: SULFURIZED OIL

Company

Ashland  
Ashland Distribution Co. &  
Ashland Specialty Chemical Co.  
P. O. Box 2219  
Columbus, OH 43216  
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)  
24 hours everyday

Regulatory Information Number:  
1-800-325-3751

---

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
SULFURIZED OIL	Trade Secret	100.0

---

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

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

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.

Continued on next page

**MATERIAL SAFETY DATA SHEET**

Ashland

Page 002

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

**Inhalation**

Breathing of vapor or mist is possible.

**Symptoms of Exposure**

stomach or intestinal upset (nausea, vomiting, diarrhea),  
irritation (nose, throat, airways).

**Target Organ Effects**

No data

**Developmental Information**

No data

**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Skin contact.

---

**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**

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

Continued on next page



MATERIAL SAFETY DATA SHEET

Ashland

Page 003

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

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

Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin.

---

5. FIRE FIGHTING MEASURES

Flash Point

> 350.0 F (176.6 C) COC

Explosive Limit

Not applicable

Autoignition Temperature

No data

Hazardous Products of Combustion

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

Fire and Explosion Hazards

Dense smoke may be generated while burning.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. 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.

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 004

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

---

6. ACCIDENTAL RELEASE MEASURES

Small Spill

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

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. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

---

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

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Continued on next page

**MATERIAL SAFETY DATA SHEET**

Ashland

Page 005

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

**Skin Protection**

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product., Wear normal work clothing covering arms and legs..

**Respiratory Protections**

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m<sup>3</sup>, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

**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

-----

SULFURIZED OIL

No exposure limits established

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point**

(for product) > 350.0 F (176.6 C) @ 760.00 mmHg

**Vapor Pressure**

Not applicable

**Specific Vapor Density**

Not applicable

**Specific Gravity**

1.010 @ 60.00 F

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 006

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

Liquid Density

8.410 lbs/gal @ 60.00 F

1.010 kg/l @ 16.00 C

Percent Volatiles (Including Water)

No data

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

HOMO SOLN

Color

DARK BROWN-BLACK, FATTY ODOR

Odor

No data

pH

Not applicable

---

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

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

Continued on next page

**MATERIAL SAFETY DATA SHEET**

Ashland

Page 007

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

**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

**Container/Mode:**  
No data

**NOS Component:**  
None

Continued on next page

MATERIAL SAFETY DATA SHEET

Ashland

Page 008

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

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.

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( ) 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.

Last page

FAK DELIVERY

10 TOTAL PAGES INCLUDING COVER

RELAYED VIA XPEDITE SYSTEMS INC

TO: (517)-335-4887

FROM: VALVMSDS@ASHLAND.COM

SUBJ: (517)-335-4887 14:39 ATTN: MATT WILLIAMS

XPEDITE REFERENCE NUMBER: 21096998

ORIGINATOR REFERENCE NUMBER:

**TO: ATTN: MATT WILLIAMS**

**FROM: Jodi**

**SUBJECT: REQUESTED MATERIAL SAFETY DATA SHEETS**

**MSDS(S) REQUESTED FOR: PROMAX Q 1013**

**ADDITIONAL COMMENTS:**



MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PROMAX Q 1013

General or Generic ID: CHLORINATED HYDROCARBON

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)
HALOGENATED PARAFFIN	Trade Secret	100.0

---

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

Skin

May cause mild skin irritation.

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

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 is not likely to be harmful.

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 002

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**Symptoms of Exposure**

stomach or intestinal upset (nausea, vomiting, diarrhea).

**Target Organ Effects**

No data

**Developmental Information**

No data

**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Skin contact.

---

**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.

Continued On Next Page

**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 003

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**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**

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. 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.

---

**5. FIRE FIGHTING MEASURES**

**Flash Point**

465.0 F (240.5 C)

**Explosive Limit**

Not applicable

**Autoignition Temperature**

No data

**Hazardous Products of Combustion**

May form: carbon dioxide and carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons.

**Fire and Explosion Hazards**

No special fire hazards are known to be associated with this product.

**Extinguishing Media**

regular foam, carbon dioxide, dry chemical.

Continued On Next Page

**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 004

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**Fire Fighting Instructions**

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. 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 - 1, Reactivity - 0

---

**6. ACCIDENTAL RELEASE MEASURES**

**Small Spill**

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

**Large Spill**

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

---

**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

Continued On Next Page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

Skin Protection

Wear resistant gloves (consult your safety equipment supplier).,  
Wear normal work clothing covering arms and legs..

Respiratory Protections

Not required under normal conditions of use.

Engineering Controls

Not required under normal conditions of use.

Exposure Guidelines

Component

HALOGENATED PARAFFIN

No exposure limits established

---

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point

(for product) 350.0 F (176.6 C) @ 760.00 mmHg

Vapor Pressure

No data

Specific Vapor Density

> 1.000 @ AIR-1

Specific Gravity

1.190 @ 77.00 F

Continued On Next Page

**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 006

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**Liquid Density**

9.900 lbs/gal @ 77.00 F

1.190 kg/l @ 25.00 C

**Percent Volatiles (Including Water)**

No data

**Evaporation Rate**

SLOWER THAN ETHYL ETHER

**Appearance**

No data

**State**

LIQUID

**Physical Form**

HOMOGENEOUS SOLUTION

**Color**

CLEAR, G COLOR 4

**Odor**

No data

**pH**

Not applicable

---

**10. STABILITY AND REACTIVITY**

**Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**Hazardous Decomposition**

May form: carbon dioxide and carbon monoxide, hydrogen chloride, phosgene, various hydrocarbons.

Continued On Next Page

**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 007

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

**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

**Container/Mode:**

DRUMS/SURFACE - NO EXCEPTIONS

**NOS Component:**

None

Continued On Next Page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 008

Date Prepared: 07/06/00

Date Printed: 07/09/02

MSDS No: 999.0001779-002.009

PROMAX Q 1013

---

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.

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( ) 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.

Last Page



FAK DELIVERY

10 TOTAL PAGES INCLUDING COVER

RELAYED VIA XPEDITE SYSTEMS INC

TO: (517)-335-4887

FROM: VALVMSDS@ASHLAND.COM

SUBJ: (517)-335-4887 14:34 ATTN: MATT WILLIAMS

XPEDITE REFERENCE NUMBER: 21095505

ORIGINATOR REFERENCE NUMBER:

**TO: ATTN: MATT WILLIAMS**

**FROM: Jodi**

**SUBJECT: REQUESTED MATERIAL SAFETY DATA SHEETS**

**MSDS(S) REQUESTED FOR: PROMAX H-3**

**ADDITIONAL COMMENTS:**

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PROMAX H-3

General or Generic ID: SULFURIZED OIL

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 volume)
SULFURIZED OIL	Trade Secret	100.0

---

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

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

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.

Inhalation

Breathing of vapor or mist is possible.

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 002

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

**Symptoms of Exposure**

stomach or intestinal upset (nausea, vomiting, diarrhea),  
irritation (nose, throat, airways).

**Target Organ Effects**

No data

**Developmental Information**

No data

**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Skin contact.

---

**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**

Do not induce vomiting. Give one glass of milk or water, and get medical attention immediately. If possible, do not leave victim unattended.

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 003

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

**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**

Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: skin.

---

**5. FIRE FIGHTING MEASURES**

**Flash Point**

> 350.0 F (176.6 C) COC

**Explosive Limit**

Not applicable

**Autoignition Temperature**

No data

**Hazardous Products of Combustion**

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

**Fire and Explosion Hazards**

Dense smoke may be generated while burning.

**Extinguishing Media**

regular foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions**

Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. 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.

Continued On Next Page

**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

Page 004

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

NFPA Rating

Health - 1, Flammability - 1, Reactivity - 0

---

**6. ACCIDENTAL RELEASE MEASURES**

**Small Spill**

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

**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. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

---

**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**

Not required under normal conditions of use. However, if misting or splashing conditions exist, then safety glasses or chemical splash goggles are advised.

Continued On Next Page

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 005

Date Prepared: 01/14/02

Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

---

**Skin Protection**

Not normally required. However, wear resistant gloves such as nitrile rubber to prevent irritation which may result from prolonged or repeated skin contact with product., Wear normal work clothing covering arms and legs..

**Respiratory Protections**

Not required under normal conditions of use. However, if oil mists are generated above recommended PEL/TLV of 5 mg/m3, then a NIOSH/MSHA approved respirator is advised in absence of proper environmental control. (See your industrial hygienist.)

**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

SULFURIZED OIL

No exposure limits established

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point**

(for product) > 350.0 F (176.6 C) @ 760.00 mmHg

**Vapor Pressure**

Not applicable

**Specific Vapor Density**

Not applicable

**Specific Gravity**

1.010 @ 60.00 F

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**MATERIAL SAFETY DATA SHEET**

The Valvoline Company

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Date Printed: 07/09/02

MSDS No: 999.0119730-004.002

PROMAX H-3

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**Liquid Density**

8.410 lbs/gal @ 60.00 F

1.010 kg/l @ 16.00 C

**Percent Volatiles (Including Water)**

No data

**Evaporation Rate**

SLOWER THAN ETHYL ETHER

**Appearance**

No data

**State**

LIQUID

**Physical Form**

HOMO SOLN

**Color**

DARK BROWN-BLACK, FATTY ODOR

**Odor**

No data

**pH**

Not applicable

---

**10. STABILITY AND REACTIVITY**

**Hazardous Polymerization**

Product will not undergo hazardous polymerization.

**Hazardous Decomposition**

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

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**MATERIAL SAFETY DATA SHEET**

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PROMAX H-3

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**Chemical Stability**  
Stable.

**Incompatibility**  
Avoid contact with: strong oxidizing agents.

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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:**  
Not Regulated

**Container/Mode:**  
No data

**NOS Component:**  
None

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MATERIAL SAFETY DATA SHEET

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PROMAX H-3

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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.

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( ) 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

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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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FAX DELIVERY

12 TOTAL PAGES INCLUDING COVER

RELAYED VIA XPEDITE SYSTEMS INC

TO: (517)-335-4887

FROM: VALVMSDS@ASHLAND.COM

SUBJ: (517)-335-4887 14:39 ATTN: MATT WILLIAMS

XPEDITE REFERENCE NUMBER: 21096791

ORIGINATOR REFERENCE NUMBER:

**TO: ATTN: MATT WILLIAMS**

**FROM: Jodi**

**SUBJECT: REQUESTED MATERIAL SAFETY DATA SHEETS**

**MSDS(S) REQUESTED FOR: EC 50-50**

**ADDITIONAL COMMENTS:**

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001

Date Prepared: 08/03/99

Date Printed: 07/09/02

MSDS No: 999.0021525-008.009

EC 50-50

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: EC 50-50

General or Generic ID: SOLVENT BLEND

Company

The Valvoline Company  
P.O. Box 14000  
Lexington, KY 40512

Telephone Numbers

Emergency: 1-800-274-5263  
Information: 1-859-357-7206

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by volume)
METHYL ISOBUTYL KETONE	108-10-1	50.0
TOLUENE	108-88-3	50.0

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3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin

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.

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.

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## MATERIAL SAFETY DATA SHEET

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EC 50-50

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### 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

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), temporary changes in mood and behavior irregular heartbeat, and death.

### Target Organ Effects

Prolonged intentional toluene abuse may lead to damage to many organ systems having effects on: central and peripheral nervous systems, vision, hearing, liver, kidneys, heart and blood. Such abuse has been associated with brain damage characterized by disturbances in gait, personality changes and loss of memory. Comparable central nervous system effects have not been shown to result from occupational exposure to toluene. Prolonged intentional toluene abuse may lead to hearing loss progressing to deafness. In addition, while noise is known to cause hearing loss in humans, it has been suggested that workers exposed to organic solvents, including toluene, along with noise may suffer greater hearing loss than would be expected from exposure to noise alone. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects, liver abnormalities, nasal damage, kidney damage, lung damage, brain damage, effects on hearing, central nervous system damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: kidney damage.

### Developmental Information

Toluene may be harmful to the human fetus based on positive test results with laboratory animals. Case studies show that prolonged intentional abuse of toluene during pregnancy can cause birth defects in humans.

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**Cancer Information**

No data

**Other Health Effects**

No data

**Primary Route(s) of Entry**

Inhalation, Skin absorption, Skin contact, Ingestion.

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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 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: respiratory tract skin, lung (for example, asthma-like conditions), liver, kidney, central nervous system, auditory system.

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MATERIAL SAFETY DATA SHEET

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5. FIRE FIGHTING MEASURES

Flash Point

40.0 - 50.0 F (4.4 - 10.0 C) TCC

Explosive Limit

(for product) Lower 1.2 Upper .0 %

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 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.

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 - 2, Flammability - 3, Reactivity - 0

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6. ACCIDENTAL RELEASE MEASURES

Small Spill

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

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**MATERIAL SAFETY DATA SHEET**

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

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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 (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 (see 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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**METHYL ISOBUTYL KETONE (108-10-1)**

OSHA PEL 100.000 ppm - TWA

OSHA VPEL 50.000 ppm - TWA

OSHA VPEL 75.000 ppm - STEL

ACGIH TLV 50.000 ppm - TWA

ACGIH TLV 75.000 ppm - STEL

**TOLUENE (108-88-3)**

OSHA PEL 200.000 ppm - TWA

OSHA PEL 300.000 ppm - Ceiling

OSHA VPEL 100.000 ppm - TWA

OSHA VPEL 150.000 ppm - STEL

ACGIH TLV 50.000 ppm - TWA (Skin)

ACGIH TLV 150.000 ppm - STEL (Skin)

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Boiling Point**

(for component) 232.0 F (111.1 C) @ 760 mmHg

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Vapor Pressure

(for component) 22.000 mmHg @ 68.00 F

Specific Vapor Density

> 1.000 @ AIR-1

Specific Gravity

.836 @ 77.00 F

Liquid Density

6.960 lbs/gal @ 77.00 F

.836 kg/l @ 25.00 C

Percent Volatiles

100.0 %

Evaporation Rate

SLOWER THAN ETHYL ETHER

Appearance

No data

State

LIQUID

Physical Form

HOMOGENEOUS SOLUTION

Color

No data

Odor

No data

pH

Not applicable

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10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

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**MATERIAL SAFETY DATA SHEET**

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**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

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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. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

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**14. TRANSPORT INFORMATION**

DOT Information - 49 CFR 172.101

DOT Description:

PAINT RELATED MATERIAL, 3, UN1263, II

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Container/Mode:  
55 GAL DRUM/TRUCK PACKAGE

NOS Component:  
None

RQ (Reportable Quantity) - 49 CFR 172.101  
Product Quantity (lbs) Component

1920	TOLUENE
10435	METHYL ISOBUTYL KETONE

Other Transportation Information

The DOT Transport Information may vary with the container and mode of shipment.

15. REGULATORY INFORMATION

US Federal Regulations

TSCA (Toxic Substances Control Act) Status  
TSCA (UNITED STATES) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a)

Component	RQ (lbs)
METHYL ISOBUTYL KETONE	5000
TOLUENE	1000

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	%
METHYL ISOBUTYL KETONE	108-10-1	50.00
TOLUENE	108-88-3	50.00

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OSHA Process Safety Management 29 CFR 1910  
None listed

EPA Accidental Release Prevention 40 CFR 68  
None listed

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.

BENZENE

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 reproductive harm.

TOLUENE

BENZENE

New Jersey RTK Label Information

METHYL ISOBUTYL KETONE

108-10-1

TOLUENE

108-88-3

Pennsylvania RTK Label Information

2-PENTANONE, 4-METHYL-

108-10-1

BENZENE, METHYL-

108-88-3

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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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