Ashland

Page 001

Date Prepared: 03/05/04 Date Printed: 08/04/04 MSDS No: 315.0014122-001.004

VM&P

## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: V M & P Product Code: I6920

Ashland

Company

Emergency Telephone Number:

24 hours everyday

1-800-ASHLAND (1-800-274-5263)

Ashland Distribution Co. &

Ashland Specialty Chemical Co.

P. O. Box 2219

Columbus, OH 43216

614-790-3333

Regulatory Information Number:

1-800-325-3751

#### COMPOSITION/INFORMATION ON INGREDIENTS 2.

Ingredient(s)	CAS Number	% (by weight)
~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
ALIPHATIC PETROLEUM DISTILLATES	64742-89-8	98.0-100.0
XYLENE	1330-20-7	0.1- 1.0



#### HAZARDS IDENTIFICATION

## Potential Health Effects

Eye

May cause mild eye irritation. Symptoms include stinging, tearing, and redness. Additional symptoms of eye exposure may include: blurred vision.

### Skin

Can cause skin irritation. Prolonged or repeated contact may dry Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: skin blistering, 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.

Ashland

Page 002

Date Prepared: 03/05/04 Date Printed: 08/04/04 MSDS No: 315.0014122-001.004

VM&P

### 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: redness of the face and neck, stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system excitation (giddiness, liveliness, light-headed feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, effects on memory, respiratory depression (slowing of the breathing rate), shortness of breath, loss of coordination, confusion, irregular heartbeat, coma.

### Target Organ Effects

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, kidney damage, effects on hearing.

## Developmental Information

This material (or a component) may be harmful to the human fetus based on positive test results with laboratory animals.

#### 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.

Ashland

Page 003

Date Prepared: 03/05/04
Date Printed: 08/04/04
MSDS No: 315.0014122-001.004

VM&P

Other Health Effects No data

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. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and 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, 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. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), kidney, auditory system,

Ashland

Page 004

Date Prepared: 03/05/04
Date Printed: 08/04/04
MSDS No: 315.0014122-001.004

VM&P

Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

#### 5. FIRE FIGHTING MEASURES

Flash Point

10.0 C (50.0 F) TCC

Explosive Limit

(for product) Lower .9 Upper 7.0 %

Autoignition Temperature

232.2 C (450.0 F)

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.

Ashland

Page 005

Date Prepared: 03/05/04 Date Printed: 08/04/04 MSDS No: 315.0014122-001.004

V M & P

NFPA Rating
Not determined

NFPA 30 Classification Flammable Liquid Class IB

## 6. ACCIDENTAL RELEASE MEASURES

#### Small Spill

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

## Large Spill

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

## 7. HANDLING AND STORAGE

#### Handling

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. 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 Continued on next page

Ashland

Page 006

Date Prepared: 03/05/04
Date Printed: 08/04/04

MSDS No: 315.0014122-001.004

V M & P

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.

## 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 (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

ALIPHATIC PETROLEUM DISTILLATES (64742-89-8) ACGIH TLV 300.000 ppm - TWA

ACGIH TLV 1370.000 mg/m3 - TWA

XYLENE (1330-20-7)

ACGIH TLV 100.000 ppm - TWA

ACGIH TLV 434.000 mg/m3 - TWA

Continued on next page

Ashland

Page 007

Date Prepared: 03/05/04
Date Printed: 08/04/04

MSDS No: 315.0014122-001.004

VM&P

ACGIH TLV 150.000 ppm - STEL ACGIH TLV 651.000 mg/m3 - STEL

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (for product) 115.5 - 140.5 C (240.0 - 285.0 F ) @ 760 mmHg

Vapor Pressure (for product) 10.200 mmHg @ 68.00 F

Specific Vapor Density
3.800 @ AIR=1

Specific Gravity .743 - .750 @ 60.00 F

Liquid Density 6.190 lbs/gal @ 60.00 F .743 kg/l @ 16.00 C

Percent Volatiles
100.0 %

Volatile Organic Compounds (VOC) 100.000 % 743.000 g/l 6.190 lbs/gal

Evaporation Rate 9.20 (ETHER)

Appearance CLEAR; COLORLESS

State LIQUID

Ashland

Page 008

Date Prepared: 03/05/04
Date Printed: 08/04/04

MSDS No: 315.0014122-001.004

VM&P

Physical Form

NEAT

Color

CLEAR, SAYBOLT COLOR +30

Odor

LIGHT HYDROCARBON

рН

No data

Viscosity

.7 cps

@ 25.00 C

Molecular Weight

120.0

Solubility in Water

NEGLIGIBLE

Heat Value

20158.000 BTU

Bulk Density

.840 lbs/ft3

## 10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

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

Chemical Stability

Stable.

Ashland

Page 009

Date Prepared: 03/05/04
Date Printed: 08/04/04
MSDS No: 315.0014122-001.004

VM&P

Incompatibility

Avoid contact with: strong oxidizing agents.

#### 11. TOXICOLOGICAL INFORMATION

LD 50 and LC 50 Data

XYLENE (CAS# 1330-20-7)
Oral LD50 (rat): 4300 mg/kg
Dermal LD50 (rabbit): >2000 mg/kg
Inhalation LC50 (rat, 4 hour): 6700 ppm
NAPHTHA, PETROLEUM (CAS# 64742-89-8)
Oral LD50 (rat): >8 ml/kg
Dermal LD50 (rabbit): >4 ml/kg
Inhalation LC50 (rat, 4 hour): 3400 ppm
All data is for an essentially similar material.

### 12. ECOLOGICAL INFORMATION

No data

## 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.

## 14. TRANSPORTATION INFORMATION

TDG Information

TDG Description:

PETROLEUM DISTILLATES, N.O.S.,3,UN1268,II

Continued on next page

Ashland

Page 010

Date Prepared: 03/05/04

Date Printed: 08/04/04

MSDS No: 315.0014122-001.004

VM&P

Container/Mode
55 GAL DRUM/TRUCK PACKAGE

NOS Component:

ALIPHATIC PETROLEUM DISTILLATES

Other Transportation Information

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

## 15. REGULATORY INFORMATION

Canada

WHMIS Classification

Class A - Compressed Gas

Does not meet criteria

Class B - Flammmable & Combustible Material

B2 - Flammable and combustible material - Flammable liquid

Class C - Oxidizing Material

Does not meet criteria

Class D - Poisonous & Infectious - Division 1

Does not meet criteria

Class D - Poisonous & Infectious - Division 2

D2A - Poisonous and infectious material - Other effects - Very toxic

D2B - Poisonous and infectious material - Other effects - Toxic

Ashland

Page 011

Date Prepared: 03/05/04
Date Printed: 08/04/04

MSDS No: 315.0014122-001.004

VM&P

Class E - Corrosive Material

Does not meet criteria

Class F - Dangerously Reactive Material

Does not meet criteria

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

DSL (Domestic Substance List) Status

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

## International Regulations

### Inventory Status

AICS (AUSTRALIA) The intentional ingredients of this product are listed.

ECL (SOUTH KOREA) The intentional ingredients of this product are listed.

EINECS (EUROPE) The intentional ingredients of this product are listed.

ENCS (JAPAN) The intentional ingredients of this product are listed. IECSC (CHINA) The intentional ingredients of this product are listed.

PICCS (PHILIPPINES) The intentional ingredients of this product are listed.

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

Ashland

Page 012

Date Prepared: 03/05/.04
Date Printed: 08/04/04

MSDS No: 315.0014122-001.004

V M & P

## 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.