

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001
Date Prepared: 01/14/02
Date Printed: 01/31/02
MSDS No: 510.0336559-003.002

AUTO A2Z ALL WHEELS 6/26 OZ

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: AUTO A2Z ALL WHEELS 6/26 OZ
SAP Material No: E11020626
General or Generic ID: AUTOMOTIVE DETAIL PRODUCT

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)
2-BUTOXYETHANOL	111-76-2	1.0- 9.0
HYDROXYACETIC ACID	79-14-1	1.0- 8.0
OXALIC ACID	144-62-7	1.0- 8.0
SURFACTANTS		
SULFURIC ACID	7664-93-9	0.1- 0.9

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. Passage of this material through the skin may be harmful.

Swallowing

Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation, burns and tissue damage. Shock may occur.

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 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: mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, tight feeling in the chest, headache, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), difficult breathing, irregular heartbeat, blood in the urine, blood abnormalities (breakage of red blood cells), acute kidney failure (sudden slowing or stopping of urine production), kidney damage, liver damage, coma, and death.

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Target Organ Effects

Acute lethal exposure to ethylene glycol monobutyl ether in animal studies has resulted in congestion of organs including kidney, spleen, and 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: blood abnormalities, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans, and may aggravate preexisting disorders of these organs: cardiovascular effects, respiratory tract damage (nose, throat, and airways), kidney damage.

Developmental Information

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

Cancer Information

This product contains sulfuric acid. The International Agency for Research on Cancer (IARC) and the National Toxicology Program have listed strong-inorganic-acid mists containing sulfuric acid as causing cancer in humans.

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.

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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. Following ingestion, inactivate oxalate by giving calcium as a dilute solution of calcium lactate, lime water, finely pulverized chalk, plaster, and/or milk. Gastric lavage is controversial due to possible corrosion in the esophagus or stomach. Systemic effects may be due to formation of a complex between oxalic acid and calcium which is insoluble at physiological pH and can be deposited in the brain and renal tubules, causing nervous system disturbances and kidney damage. Resultant hypocalcemia may be responsible for the muscular and cardiovascular effects, although hypovolemic shock from gastroenteritis or hemorrhage may also cause cardiovascular collapse. Intravenous administration of calcium gluconate or calcium chloride may be required if hypocalcemia or hypocalcemic tetany occur. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, kidneys, blood-forming system, cardiovascular system. Individuals with pre-existing heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

5. FIRE FIGHTING MEASURES

Flash Point

145.0 - 155.0 F (62.7 - 68.3 C) ESTIMATED

Explosive Limit

Not applicable

Autoignition Temperature

No data

Hazardous Products of Combustion

May form: carbon dioxide and carbon monoxide, formic acid, sulfur oxides, 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. No special fire hazards are known to be associated with this product.

Extinguishing Media

regular foam, carbon dioxide, dry chemical.

Fire Fighting Instructions

Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

NFPA Rating

Health - 3, Flammability - 2, Reactivity - 0

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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.

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.

7. HANDLING AND STORAGE

Handling

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

Storage

Do not store near extreme heat, open flame, or sources of ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection

Chemical splash goggles and face shield (8" min.) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist.)

Skin Protection

Wear impervious gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious full-body protective clothing.

Respiratory Protections

If workplace exposure limit(s) of product or any component is exceeded (See Exposure Guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (consult your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls

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

Exposure Guidelines

Component

2-BUTOXYETHANOL (111-76-2)
OSHA VPEL 25.000 ppm - TWA ((Skin))
ACGIH TLV 20.000 ppm - TWA ((Skin))

HYDROXYACETIC ACID (79-14-1)
No exposure limits established

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OXALIC ACID (144-62-7)
OSHA VPEL 1.000 mg/m3 - TWA
OSHA VPEL 2.000 mg/m3 - STEL
ACGIH TLV 1.000 mg/m3 - TWA
ACGIH TLV 2.000 mg/m3 - STEL

SURFACTANTS
No exposure limits established

SULFURIC ACID (7664-93-9)
OSHA VPEL 1.000 mg/m3 - TWA
ACGIH TLV 1.000 mg/m3 - TWA
ACGIH TLV 3.000 mg/m3 - STEL

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point
(for component) 212.0 F (100.0 C) @ 760 mmHg

Vapor Pressure
(for component) 17.500 mmHg @ 68.00 F

Specific Vapor Density
No data

Specific Gravity
1.035 @ 70.00 F

Liquid Density
8.590 lbs/gal @ 70.00 F
1.035 kg/l @ 21.10 C

Percent Volatiles (Including Water)
No data

Evaporation Rate
No data

Appearance
No data

State
LIQUID

Physical Form
No data

Color
YELLOW

Odor
JASMINE

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pH .7 - .9 @ 25 C

10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition

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

Chemical Stability

Stable.

Incompatibility

Avoid contact with: acetaldehyde, alkalies, furfuryl alcohol, halogens, peroxides, silver, strong oxidizing agents, strong reducing 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:

CORROSIVE LIQUIDS, N.O.S., 8, UN 1760, III

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

HYDROXYACETIC ACID
DODECYLBENZENESULFONIC ACID

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RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

46083 DODECYLBENZENESULFONIC ACID

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

Component Component
SULFURIC ACID 1000

SARA 302 Components - 40 CFR 355 Appendix A

Section 302 Component(s) TPQ (lbs) RQ (lbs)
SULFURIC ACID 1000 1000

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

Section 313 Component(s) CAS Number
2-BUTOXYETHANOL 111-76-2
SULFURIC ACID (acid aerosols) 7664-93-9

International Regulations

Inventory Status

ACQIN (AUSTRALIA) The intentional ingredients of this product are listed.
DSL (CANADA) The intentional ingredients of this product are listed.
EINECS (EUROPE) The intentional ingredients of this product are listed.

State and Local Regulations

California Proposition 65

None

New Jersey RTK Label Information

2-BUTOXY ETHANOL 111-76-2
OXALIC ACID 144-62-7
SULFURIC ACID 7664-93-9

Pennsylvania RTK Label Information

ETHANOL, 2-BUTOXY- 111-76-2
ETHANEDIOIC ACID 144-62-7

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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.