

The Valvoline Company

Date Prepared: 04/02/03

POWER 2 CLEAN 1/30 GA

MSDS No: 510.0392074-001.001I

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: POWER 2 CLEAN 1/30 GA

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 weight)
WATER	7732-18-5	77.0- 87.0
2-BUTOXYETHANOL	111-76-2	0.0- 10.0
ANIONIC SURFACTANT	1300-72-7	1.0- 9.0
SURFACTANT		1.0- 9.0
SODIUM METASILICATE PENTAHYDRATE	6834-92-0	1.0- 9.0
SODIUM HYDROXIDE	1310-73-2	1.0- 7.0

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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. The feeling of irritation or pain may not occur until several hours after the exposure. Additional symptoms of skin contact may include: hair loss, 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. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Inhalation

Breathing aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Breathing this material may be harmful. Symptoms usually occur at air concentrations higher than the recommended exposure limits (See Section 8).

Symptoms of Exposure

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may

include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways), cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), difficult breathing, blood in the urine, blood abnormalities (breakage of red blood cells), lung edema (fluid buildup in the lung tissue), kidney damage, liver damage, lung damage, damage to the mouth, throat and/or airways, shock.

#### 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. Studies with rabbits indicate that sustained, occluded skin contact with undiluted surfactant may result in the development of inflammatory changes in the lung. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals, and may aggravate preexisting disorders of these organs in humans: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities.

#### Developmental Information

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

#### Cancer Information

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. Ethylene glycol monobutyl ether has been shown to cause cancer in laboratory animals. The relevance of this finding to humans is uncertain.

#### Other Health Effects

No data

#### Primary Route(s) of Entry

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

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## 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. Do not remove the victim from water access for transport to a medical facility unless instructed to do so by qualified medical personnel. If possible, continue flushing the eye gently with water while transporting the victim.

### Skin

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

### Swallowing

Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

#### Inhalation

If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

#### Note to Physicians

This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 3 - Swallowing) when deciding whether to induce vomiting. Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: respiratory tract skin, lung (for example, asthma-like conditions), liver, kidneys, blood-forming system.

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## 5. FIRE FIGHTING MEASURES

### Flash Point

202.0 F (94.4 C)

### Explosive Limit

No data

### Autoignition Temperature

No data

### Hazardous Products of Combustion

May form: carbon dioxide, carbon monoxide, silicon oxides.

### Fire and Explosion Hazards

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

### Extinguishing Media

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

### Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

### NFPA Rating

Health - 3, Flammability - 1, Reactivity - 0

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## 6. ACCIDENTAL RELEASE MEASURES

### Small Spill

Absorb liquid on vermiculite, floor absorbent or other absorbent material. Scoop or scrape up. Put in container for recovery or disposal. Flush area with water.

Large Spill

Spills of this material are very slippery. Same method as small spill.

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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. Precautions during use: avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing impervious protective gloves. As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, especially before eating and/or smoking. Regular laundering of contaminated clothing is essential to reduce indirect skin contact with this material.

Storage

Under oxidation conditions, peroxides may be formed. If they become concentrated, these peroxides may present an explosion hazard.

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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.

Skin Protection

Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protections

Not applicable

Engineering Controls

Not applicable

Exposure Guidelines

Component

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WATER (7732-18-5)

No exposure limits established

2-BUTOXYETHANOL (111-76-2)

OSHA VPEL 25.000 ppm - TWA ((Skin))

ACGIH TLV 20.000 ppm - TWA ((Skin))

ANIONIC SURFACTANT (1300-72-7)

No exposure limits established

SURFACTANT

No exposure limits established

SODIUM METASILICATE PENTAHYDRATE (6834-92-0)  
No exposure limits established

SODIUM HYDROXIDE (1310-73-2)  
OSHA VPEL 2.000 mg/m3 - Ceiling  
ACGIH TLV 2.000 mg/m3 - Ceiling

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point  
(for product) .0 (-17.7 C) @ 760.00 mmHg

Vapor Pressure  
(for component) < .010 mmHg

Specific Vapor Density  
No data

Specific Gravity  
1.040 @ 70.00 F

Liquid Density  
8.660 lbs/gal @ 70.00 F  
8.660 lbs/gal @ 70.00 F

Percent Volatiles (Including Water)  
No data

Evaporation Rate  
No data

Appearance  
PURPLE LIQUID

State  
LIQUID

Physical Form  
LIQUID

Color  
PURPLE

Odor  
FRAGRANT

pH  
13.3

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#### 10. STABILITY AND REACTIVITY

Hazardous Polymerization  
Product will not undergo hazardous polymerization.

Hazardous Decomposition  
May form: silicates.

Chemical Stability

Stable.

Incompatibility

Avoid contact with: acids.

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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:

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

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

SODIUM METASILICATE PENTAHYDRATE  
SODIUM HYDROXIDE

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

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50000 SODIUM HYDROXIDE

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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

Component

Component

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SODIUM HYDROXIDE

1000

SARA 302 Components - 40 CFR 355 Appendix A

None

Section 311/312 Hazard Class - 40 CFR 370.2  
Immediate(X) Delayed(X) Fire( ) Reactive( ) Sudden  
Release of Pressure( )

SARA 313 Components - 40 CFR 372.65  
Section 313 Component(s) CAS Number  
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2-BUTOXYETHANOL 111-76-2

International Regulations  
Inventory Status  
Not determined

State and Local Regulations  
California Proposition 65  
None

New Jersey RTK Label Information  
2-BUTOXY ETHANOL 111-76-2  
SODIUM HYDROXIDE 1310-73-2

Pennsylvania RTK Label Information  
ETHANOL, 2-BUTOXY- 111-76-2  
SODIUM HYDROXIDE (NA(OH)) 1310-73-2

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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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