

6320

MATERIAL SAFETY DATA SHEET

The Valvoline Company

Page 001  
Date Prepared: 10/21/05  
Date Printed: 10/27/05  
MSDS No: 510.0388052-002.001

PRO AEROSOL GLASS CLEANER 12/18 OZ

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: PRO AEROSOL GLASS CLEANER 12/18 OZ  
SAP Material No: E1632019

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)
WATER	7732-18-5	84.0- 94.0
BUTANE	106-97-8	1.0- 8.0
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	1.0- 8.0
MORPHOLINE	110-91-8	1.0- 7.0
ISOPROPANOL	67-63-0	1.0- 7.0
PROPANE	74-98-6	1.0- 7.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation.

Skin

May cause mild skin irritation. Passage of this material through the skin may be harmful.

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). 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: irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), difficult breathing.

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: mild, reversible liver effects, mild, reversible kidney effects, blood abnormalities.

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**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 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**

First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

**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**

Preexisting disorders of the following organs ( or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions).

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**5. FIRE FIGHTING MEASURES**

**Flash Point**

147.0 F (63.8 C)

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**Explosive Limit**  
No data

**Autoignition Temperature**  
No data

**Hazardous Products of Combustion**  
No data

**Fire and Explosion Hazards**  
No data

**Extinguishing Media**  
alcohol foam, carbon dioxide, dry chemical.

**Fire Fighting Instructions**  
Water may be ineffective. Fight fires from protected locations; usually 100 feet if using a hand-held hose stream.

**NFPA Rating**  
Health - 2, Flammability - 4, Reactivity - 0

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### 6. ACCIDENTAL RELEASE MEASURES

**Small Spill**  
Eliminate all sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate area. Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**Large Spill**  
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. Avoid prolonged or repeated contact. Do not puncture or incinerate containers.

**Storage**  
Do not store in temperatures above 120F. Do not store near extreme heat, open flame, or sources of ignition.

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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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#### 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.

#### 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

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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WATER (7732-18-5)

No exposure limits established

BUTANE (106-97-8)

OSHA VPEL 800.000 ppm - TWA

ACGIH TLV 800.000 ppm - TWA

ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)

OSHA VPEL 25.000 ppm - TWA ((Skin))

ACGIH TLV 20.000 ppm - TWA ((Skin))

MORPHOLINE (110-91-8)

No exposure limits established

ISOPROPANOL (67-63-0)

No exposure limits established

PROPANE (74-98-6)

OSHA VPEL 1000.000 ppm - TWA

ACGIH TLV 2500.000 ppm - TWA

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Boiling Point

(for product) ON .0 (-17.7 C)

#### Vapor Pressure

(for component) > 6000.000 mmHg

#### Specific Vapor Density

No data

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**Specific Gravity**  
.995 @ 60.00 F

**Liquid Density**  
8.310 lbs/gal @ 60.00 F  
.995 kg/l @ 15.60 C

**Percent Volatiles (Including Water)**  
No data

**Evaporation Rate**  
No data

**Appearance**  
No data

**State**  
LIQUID

**Physical Form**  
LIQUID IN AEROSOL

**Color**  
No data

**Odor**  
MILD AMMONIACAL

**pH**  
No data

**Flame Propagation**  
> 18.000 in

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**10. STABILITY AND REACTIVITY**

**Hazardous Polymerization**  
Product will not undergo hazardous polymerization.

**Hazardous Decomposition**  
No data

**Chemical Stability**  
Stable.

**Incompatibility**  
No data

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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:

AEROSOLS, FLAMMABLE, N.O.S, 2.1, UN1950

Container/Mode:

CASES/SURFACE - NO EXCEPTIONS

NOS Component:

BUTANE  
PROPANE

RQ (Reportable Quantity) - 49 CFR 172.101

Product Quantity (lbs) Component

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46275 AMMONIA

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

SARA 313 Components - 40 CFR 372.65

Section 313 Component(s) CAS Number

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ETHYLENE GLYCOL MONOBUTYL ETHER 111-76-2

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**International Regulations**  
**Inventory Status**  
Not determined

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

**New Jersey RTK Label Information**

BUTANE	106-97-8
2-BUTOXY ETHANOL	111-76-2
PROPANE	74-98-6

**Pennsylvania RTK Label Information**

BUTANE	106-97-8
ETHANOL, 2-BUTOXY-	111-76-2
PROPANE	74-98-6

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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.