

The Valvoline Company

Date Prepared: 03/07/03

MSDS No: 510.0388052-001.002I

AUTO 20/20 AEROSOL GLASS CLNR 1/18 OZ

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: AUTO 20/20 AEROSOL GLASS CLNR 1/18 OZ

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) |
|---------------------------------|------------|---------------|
| ETHYLENE GLYCOL MONOBUTYL ETHER | 111-76-2 | 1.0- 10.0 |
| BUTANE | 106-97-8 | 1.0- 8.0 |
| 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.

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.

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).

5. FIRE FIGHTING MEASURES

Flash Point
> 200.0 F (93.3 C)

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

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.

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
Keep containers closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection
Not required under normal conditions of use.

Skin Protection
Not required under normal conditions of use.

Respiratory Protections

Not required under normal conditions of use.

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

ETHYLENE GLYCOL MONOBUTYL ETHER (111-76-2)

OSHA VPEL 25.000 ppm - TWA ((Skin))

ACGIH TLV 20.000 ppm - TWA ((Skin))

BUTANE (106-97-8)

OSHA VPEL 800.000 ppm - TWA

ACGIH TLV 800.000 ppm - TWA

PROPANE (74-98-6)

OSHA VPEL 1000.000 ppm - TWA

ACGIH TLV 2500.000 ppm - TWA

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

Specific Gravity

.960 @ 60.00 F

Liquid Density

7.940 lbs/gal @ 60.00 F

.951 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

10. STABILITY AND REACTIVITY

Hazardous Polymerization
Product will not undergo hazardous polymerization.

Hazardous Decomposition
No data

Chemical Stability
Stable.

Incompatibility
No data

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:
CONSUMER COMMODITY,ORM-D

Container/Mode:
CASES/SURFACE - ORM-D EXCEPTION

NOS Component:
None

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

46275 AMMONIA

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 |
|---------------------------------|------------|
| ETHYLENE GLYCOL MONOBUTYL ETHER | 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 |
| BUTANE | 106-97-8 |
| PROPANE | 74-98-6 |

Pennsylvania RTK Label Information

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

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