

SAFETY DATA SHEET

Revision Date: 09/21/2011
Print Date: 5/11/2012
MSDS Number: 000000138077
Version: 3.5

E1 DRTV GEL WAX BUNDLE MISC
791407

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)

Product name E1 DRTV GEL WAX BUNDLE MISC

Product code 791407

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid

WARNING! COMBUSTIBLE LIQUID AND VAPOR. MAY AFFECT THE CENTRAL NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. HARMFUL IF SWALLOWED.

Potential Health Effects

Exposure routes

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

Eye contact

Can cause severe eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure eye tissue.

Skin contact

Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

Ingestion

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Swallowing this material may be harmful. Liver, kidney and brain damage in humans has resulted from swallowing lethal or near-lethal amounts of ethylene glycol.

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 are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

Aggravated Medical Condition

Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias., Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, lung (for example, asthma-like conditions), Liver, Kidney, Skin

Symptoms

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 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, involuntary eye movement, cyanosis (causes blue coloring of the skin and nails from lack of oxygen), lung edema (fluid buildup in the lung tissue), acute kidney failure (sudden slowing or stopping of urine production), liver damage, Convulsions, coma

Target Organs

Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals:, reproductive effects, kidney damage, liver damage, Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans:, kidney damage, liver damage

Carcinogenicity

This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA).

Reproductive hazard

Ethylene glycol has caused birth defects in animal studies at high oral doses. However, it did not cause harm to the pregnant animal or to the fetus when applied to the skin of the pregnant animal.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	CAS-No. / Trade Secret No.	Concentration
BOEHMITE	1318-23-6	>=1.5-<5%
ETHYLENE GLYCOL	107-21-1	>=1.5-<5%
CARNAUBA WAX	8015-86-9	>=1.5-<5%
PETROLEUM DISTILLATES (STODDARD TYPE)	8052-41-3	>=1-<1.5%
ALCOHOLS, C9-11, ETHOXYLATED	68439-46-3	>=1-<1.5%

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

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.

Ingestion

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.

Notes to physician

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Hazards: Effects of acute ethylene glycol poisoning appear in three fairly distinct stages. The initial stage occurs shortly after exposure, lasts 6-12 hours, and is characterized by central nervous system effects (transient exhilaration, nausea, vomiting, and in severe cases, coma, convulsions, and possible death). The second stage lasts from 12-36 hours after exposure and is initiated by the onset of coma. This phase is characterized by tachypnea, tachycardia, mild hypotension, cyanosis, and in severe cases, pulmonary edema, bronchopneumonia, cardiac enlargement, and congestive failure. The final stage occurs 24-72 post-exposure and is characterized by renal failure, ranging from a mild increase in blood urea nitrogen and creatinine followed by recovery, to complete anuria with acute tubular necrosis that can lead to death. Oxaluria is found in most cases. The most significant laboratory finding in ethylene glycol intoxication is severe metabolic acidosis.

Treatment: This product contains ethylene glycol. Ethanol decreases the metabolism of ethylene glycol to toxic metabolites. Ethanol should be administered as soon as possible in cases of severe poisoning since the elimination half-life of ethylene glycol is 3 hours. If medical care will be delayed several hours, give the patient three to four 1-ounce oral "shots" of 86-proof or higher whiskey before or during transport to the hospital. Fomepizole (4-methylpyrazole) is an effective antagonist of alcohol dehydrogenase, and as such, may be used as an antidote in the treatment of ethylene glycol poisoning. Hemodialysis effectively removes ethylene glycol and its metabolites from the body.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂), Water spray

Hazardous combustion products

carbon dioxide and carbon monoxide, Alcohols, Aldehydes, ethers, toxic fumes

Precautions for fire-fighting

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquids Classification

Combustible Liquid Class IIIA

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

For personal protection see section 8. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Ensure adequate ventilation. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind.

Environmental precautions

Prevent spreading over a wide area (e.g. by containment or oil barriers). Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Other information

Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

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. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

Storage

Store in a cool, dry, ventilated area.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

BOEHMITE		1318-23-6	
ACGIH	time weighted average	1 mg/m3	Respirable fraction.
ETHYLENE GLYCOL		107-21-1	
ACGIH	Ceiling Limit Value:	100 mg/m3	Aerosol.
PETROLEUM DISTILLATES (STODDARD TYPE)		8052-41-3	
ACGIH	time weighted average	100 ppm	
NIOSH	Recommended exposure limit (REL):	350 mg/m3	
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3	
OSHA Z1	Permissible exposure limit	500 ppm	
OSHA Z1	Permissible exposure limit	2,900 mg/m3	

General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure controls

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist. Maintain eye wash station near work area.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Wear resistant gloves (consult your safety equipment supplier).

Discard gloves that show tears, pinholes, or signs of wear.

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Respiratory protection

Respiratory protection is not required under normal conditions of use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Boiling point/boiling range	148.3 °F / 64.6 °C @ 1,013.33 hPa Calculated Phase Transition Liquid/Gas
pH	(+/- 1.0) 7
Flash point	171.0 °F / 77.2 °C Tag closed cup
Vapour pressure	23.333 hPa @ 68 °F / 20 °C Calculated Vapor Pressure
Density	(+/- 0.005) 0.956 g/cm ³

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

Heat, flames and sparks.

Incompatible products

Aldehydes, Alkali metals, Alkaline earth metals, Copper, Copper alloys, Strong acids, strong alkalis, Strong bases, Strong oxidizing agents, Sulphur compounds, Do not use with aluminum equipment at temperatures above 120 degrees F.

Hazardous decomposition products

carbon dioxide and carbon monoxide, Aldehydes, ketones, Organic acids

Hazardous reactions

Product will not undergo hazardous polymerization.

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11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

Acute oral toxicity - Product : no data available

Acute oral toxicity - Components

ETHYLENE GLYCOL : LD 50: 6,140 mg/kg Species: Rat

PETROLEUM DISTILLATES (STODDARD TYPE) : LD 50: > 5 g/kg Species: Rat

ALCOHOLS, C9-11, ETHOXYLATED : LD 50: 1.4 g/kg Species: Rat

Acute inhalation toxicity

Acute inhalation toxicity - Product : no data available

Acute inhalation toxicity - Components

PETROLEUM DISTILLATES (STODDARD TYPE) : Remarks: Slightly toxic by inhalation

Acute dermal toxicity

Acute dermal toxicity - Product : no data available

Acute dermal toxicity - Components

ETHYLENE GLYCOL : LD 50: 9,530 mg/kg Species: Rabbit

PETROLEUM DISTILLATES (STODDARD TYPE) : LD 50: > 3 g/kg Species: Rabbit

ALCOHOLS, C9-11, ETHOXYLATED : LD 50: > 5 g/kg Species: Rabbit

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Acute toxicity (other routes of administration)

Acute toxicity (other routes of administration) : no data available

12. ECOLOGICAL INFORMATION

Biodegradability

Biodegradability - Product : no data available

Biodegradability - Components

ALCOHOLS, C9-11, ETHOXYLATED : Remarks: Readily biodegradable

Bioaccumulation

Bioaccumulation - Product : no data available

Bioaccumulation - Components

ETHYLENE GLYCOL : Species: Crayfish (Procambarus) Exposure time: 61 d
 Concentration: 1,000 mg/l Bioconcentration factor (BCF):
 0.27 Method: Flow through

Ecotoxicity effects

Toxicity to fish

Toxicity to fish - Product : no data available

Toxicity to fish - Components

ETHYLENE GLYCOL : LC 50: 27,540 mg/l
 Exposure time: 96 h
 Species: Bluegill (Lepomis macrochirus)
 Method: Static
 Remarks: Mortality

LC 50: 8,050 mg/l
 Exposure time: 96 h
 Species: Fathead minnow (Pimephales promelas)
 Remarks: Mortality

ALCOHOLS, C9-11, : LC 50: 8.5 - 17 mg/l

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ETHOXYLATED	Exposure time: 96 h Species: Fathead minnow (Pimephales promelas) Method: Renewal Remarks: Mortality
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Toxicity to daphnia and other aquatic invertebrates.

Toxicity to daphnia and other aquatic invertebrates. - Product	: no data available
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Toxicity to daphnia and other aquatic invertebrates. - Components

ETHYLENE GLYCOL	: LC 50: > 10,000 mg/l Exposure time: 48 h Species: Water flea (Daphnia magna) Method: Static Remarks: Mortality
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ALCOHOLS, C9-11, ETHOXYLATED	: EC 50: 2.9 - 8.5 mg/l Exposure time: 48 h Species: Water flea (Daphnia magna) Method: Renewal Remarks: Intoxication
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Toxicity to algae

Toxicity to algae - Product	: no data available
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Toxicity to bacteria

Toxicity to bacteria - Product	: no data available
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13. DISPOSAL CONSIDERATIONS

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Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations.

14. TRANSPORT INFORMATION

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

Not dangerous goods

U.S. DOT - RAIL

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TRANSPORT CANADA - ROAD

Not dangerous goods

TRANSPORT CANADA - RAIL

Not dangerous goods

TRANSPORT CANADA - INLAND WATERWAYS

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

WARNING! This product contains a chemical known to the State of California to cause cancer.	CUMENE ETHYL BENZENE NAPHTHALENE
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SARA Hazard Classification SARA 311/312 Classification

Fire Hazard Acute Health Hazard

SARA 313 Component(s)

ETHYLENE GLYCOL	3.60 %
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New Jersey RTK Label Information

WATER	7732-18-5
BOEHMITE	1318-23-6
ETHYLENE GLYCOL	107-21-1
PROPRIETARY ADDITIVE	
CARNAUBA WAX	8015-86-9
PETROLEUM DISTILLATES (STODDARD TYPE)	8052-41-3

Pennsylvania RTK Label Information

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WATER	7732-18-5
BOEHMITE	1318-23-6
ETHYLENE GLYCOL	107-21-1
PROPRIETARY ADDITIVE	
PETROLEUM DISTILLATES (STODDARD TYPE)	8052-41-3

Notification status

US. Toxic Substances Control Act	y (positive listing)
Australia. Industrial Chemical (Notification and Assessment) Act	y (positive listing)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL). (Can. Gaz. Part II, Vol. 133)	y (positive listing)
Japan. Kashin-Hou Law List	y (positive listing)
Korea. Toxic Chemical Control Law (TCCL) List	y (positive listing)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	y (positive listing)
China. Inventory of Existing Chemical Substances	y (positive listing)
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	n (Negative listing)

Reportable quantity - Product

US. EPA CERCLA Hazardous Substances (40 CFR 302)	138888 lbs
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Reportable quantity-Components

ETHYLENE GLYCOL	107-21-1	5000 lbs
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	HMIS	NFPA
Health	2	1
Flammability	2	2
Physical hazards	0	
Instability		0
Specific Hazard	--	--

16. OTHER INFORMATION

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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. This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).