

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Envirolak WB Retarder
Product code : ELRX114

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Diluant for WB Coatings

1.3. Details of the supplier of the safety data sheet

Manufacturer

Performance Finishing Solutions
4800 Eastgate Parkway
Units 3 & 4
Mississauga, L4W 3W6 - Canada
T 905-629-7007

1.4. Emergency telephone number

Emergency number : 800-239-3824 (8AM - 5PM)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS classification

Acute Tox. 2 (Oral)
Acute Tox. 2 (Dermal)
Acute Tox. 2 (Inhalation:vapour)
Skin Irrit. 2
Eye Irrit. 2a
STOT SE 2
STOT RE 1

2.2. Label elements

GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) : Warning
Hazard statements (GHS) : Causes Serious eye irritation
Precautionary statements (GHS) : If in Eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and/or attention.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Diethylene glycol monobutyl ether
CASRN: 112-34-5

3.2. Mixtures

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According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Name	Product identifier	%
Diethylene glycol monobutyl ether	(CAS-No.) 112-34-5	100

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a POISON CENTER/doctor if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. Call a poison center or a doctor if you feel unwell.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a POISON CENTER/doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : Wash off with plenty of water.
- Symptoms/effects after eye contact : Causes eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : Rinse mouth with water, no emergency medical treatment necessary.
- Chronic symptoms : None known.

4.3. Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Water fog or fine spray, Dry Chemical Fire extinguishers. CO2 fire extinguishers, Foam (alcohol resistant)
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

- Protection during firefighting : Keep people away. Isolate fire and deny unnecessary entry.. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed.. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles.. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container.. Burning liquids may be extinguished by dilution with water.. Do not use direct water stream. May spread fire.. Move container from fire area if this is possible without hazard.. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage
- Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves).. If protective equipment is not available or not used, fight fire from a protected location or safe distance

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Avoid release to the environment. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin, eyes and clothing. Do not breathe dust, fume, gas, mist, spray, vapours. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only in a well-ventilated area.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Store locked up. Protect from freezing. Keep out of direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethylene glycol monobutyl ether (CAS 112-34-5)		
ACGIH	ACGIH TWA (ppm) inhalable fraction and vapour	10 ppm
ACGIH	Remark (ACGIH)	Eye irr.

8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Wear eye/face protection.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Colourless liquid
- Colour : Clear
- Odour : Faint
- Odour threshold : No test data available
- pH : na
- Melting point : Not applicable
- Freezing point : -68 °C
- Boiling point : 230 °C
- Flash point : 114 °C, closed cup, literature
- Relative evaporation rate (butylacetate=1) : 0.01
- Flammability (solid, gas) : Not applicable to liquids
- Vapour pressure : 0.021 mmHg @25°C
- Relative vapour density at 20 °C (68 °F) : No data available
- Relative density : 0.955

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Solubility	: Soluble in water
Partition coefficient n-octanol/water	: Log Pow:1
Auto-ignition temperature	: 210°C
Decomposition temperature	: No data available
Viscosity, kinematic	: 5.2 cps
Viscosity, dynamic	: 6 mpa.s
Explosive limits	: Lower explosive limit (LEL): Not applicable Upper explosive limit (UEL): Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

10.5. Incompatible materials

Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

May include, and are not limited to: Aldehydes, ketones, organic acids, oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Very low toxicity if swallowed.
Acute toxicity (dermal)	: Prolonged contact may cause slight skin irritation.
Acute toxicity (inhalation)	: Low toxicity if inhaled.

ATE CA (oral)	3505 mg/kg bodyweight
ATE CA (Dermal)	2764 mg/kg bodyweight
ATE CA (vapours)	Not determined

Diethylene Glycol Monobutyl Ether (112-34-5)

LD50 oral mouse	2410 mg/kg
LD50 oral rat	3505 mg/kg
LD50 dermal rabbit	2764 mg/kg
LC50 inhalation rat	Not determined

Skin corrosion/irritation	: Causes slight skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

Diethylene Glycol Monobutyl Ether (112-34-5)

IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified.
STOT-single exposure	: May cause respiratory irritation.

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Diethylene Glycol Monobutyl Ether (112-34-5)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Excessive exposure may cause anaesthetic or narcotic effects, drowsiness/dizziness.

Diethylene Glycol Monobutyl Ether (112-34-5)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified.

Symptoms/effects after inhalation : Toxic if inhaled. May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : Toxic in contact with skin. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/effects after ingestion : Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic symptoms : May cause damage to organs through prolonged or repeated exposure.

Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Diethylene Glycol Monobutyl Ether (112-34-5)	
EC50 Daphnia 1	>100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	1300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)

12.2. Persistence and degradability

Diethylene Glycol Monobutyl Ether (112-34-5)	
Persistence and degradability	Product is readily biodegradable.

12.3. Bioaccumulative potential

Diethylene Glycol Monobutyl Ether (112-34-5)	
Bioaccumulative potential	Low (BCF <100 or log Pow<3)

12.4. Mobility in soil

Potential for mobility in soil is high (Koc 2 est.)

12.5. Other adverse effects

Other information : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

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15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date	: 07/05/2021
Other information	: None.
Prepared by	: Michael Chrisomalis

SDS HazCom 2012 - WHMIS 2015

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