

# WinBright

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).  
Date of Issue: 11/22/2022 Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** WinBright

#### 1.2. Intended Use of the Product

Polish

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Micro-Surface Finishing Products, Inc.

1217 W 3rd St

PO Box 70

Wilton IA 52778

563.732.3240

[www.micro-surface.com](http://www.micro-surface.com)

[microsurface@netwtc.net](mailto:microsurface@netwtc.net)

#### 1.4. Emergency Telephone Number

**Emergency Number** : 563.732.3240

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US/CA Classification

Not classified

#### 2.2. Label Elements

##### GHS-US/CA Labeling

No labeling applicable according to 29 CFR 1910.1200 and the Hazardous Products Regulations (HPR) SOR/2015-17.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	Aluminum oxide / .alpha.-Alumina / Alumina / Aluminium oxide / Aluminium oxide (Al <sub>2</sub> O <sub>3</sub> ) / .alpha.-Aluminum oxide / Dialuminum trioxide / Dialuminium trioxide / ALUMINA / Alundum	(CAS-No.) 1344-28-1	10 - 30	Not classified
1,2,3-Propanetriol	Propane-1,2,3-triol / Glycerine / Glycerin / GLYCERIN / 1,2,3-Trihydroxypropane / Glycerol	(CAS-No.) 56-81-5	7 - 13	Not classified
Propanol, 1(or 2)-(2-methoxymethylethoxy)-	Dipropylene glycol monomethyl ether / (2-Methoxymethylethoxy)propanol / Propanol, (2-methoxymethylethoxy)- / Dipropylene glycol methyl ether / DPGME / Methoxypropoxypropanol / (2-Methoxymethylethoxy)propanol, mixed isomers / Monomethyl ether of	(CAS-No.) 34590-94-8	1 - 5	Flam. Liq. 4, H227

	dipropylene glycol / 1(or 2)-[2-Methoxy(methyl)ethoxy]propanol / PPG-2 methyl ether / PPG-2 METHYL ETHER			
Triethanolamine	Tris(hydroxyethyl)amine / Trolamine / Tri(2-hydroxyethyl)amine / TRIETHANOLAMINE / Tris(2-hydroxyethyl)amine / TEA / 2,2',2''-Nitritoltriethanol / Ethanol, 2,2',2''-nitritoltri- / Ethanol, 2,2',2''-nitritoltri-	(CAS-No.) 102-71-6	0.1 - 1	Not classified
Formaldehyde (Preservative)	Formaldehyde solution / FORMALDEHYDE / Formaldehyde solution, flammable / Formaldehyde ...% / Methaldehyde / Methanal / Formic aldehyde / Formalin	(CAS-No.) 50-00-0	< 0.007	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:gas), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1A, H350 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 3, H412
Diethanolamine	Bis(2-hydroxyethyl)amine / DEA / Di(2-hydroxyethyl)amine / 2,2'-Dihydroxydiethylamine / Ethanol, 2,2'-iminobis- / Ethanol, 2,2'-iminodi- / 2-(2-Hydroxyethylamino)ethanol / 2,2'-Iminodiethanol / Diolamine / N,N-Diethanolamine	(CAS-No.) 111-42-2	0.004	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Carc. 2, H351 STOT RE 2, H373 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

\*\* The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Not expected to present a significant hazard under anticipated conditions of normal use.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** May cause slight irritation to eyes.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use.

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### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Metal oxides. Acrolein.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers.

### 7.3. Specific End Use(s)

Polish

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

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For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	10 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Alberta</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)
<b>Nunavut</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA)	10 mg/m <sup>3</sup> (containing no Asbestos and <1% Crystalline silica-total dust)
<b>Saskatchewan</b>	OEL STEL	20 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	10 mg/m <sup>3</sup>
<b>Yukon</b>	OEL STEL	20 mg/m <sup>3</sup> (Al <sub>2</sub> O <sub>3</sub> )
<b>Yukon</b>	OEL TWA	30 mppcf (Al <sub>2</sub> O <sub>3</sub> ) 10 mg/m <sup>3</sup> (Al <sub>2</sub> O <sub>3</sub> )
<b>Triethanolamine (102-71-6)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	5 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Newfoundland &amp; Labrador</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Nova Scotia</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL STEL	10 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	10 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWA	3.1 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWA [ppm]	0.5 ppm
<b>Prince Edward Island</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA)	5 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL STEL	10 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	5 mg/m <sup>3</sup>
<b>Diethanolamine (111-42-2)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>USA ACGIH</b>	ACGIH chemical category	Confirmed Animal Carcinogen with Unknown Relevance to Humans, Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA NIOSH</b>	NIOSH REL (TWA)	15 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	3 ppm
<b>Alberta</b>	OEL TWA	2 mg/m <sup>3</sup>
<b>British Columbia</b>	OEL TWA	2 mg/m <sup>3</sup>
<b>Manitoba</b>	OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>New Brunswick</b>	OEL TWA	2 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	0.46 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction and vapor)

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<b>Nova Scotia</b>	OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Nunavut</b>	OEL STEL	4 mg/m <sup>3</sup>
<b>Nunavut</b>	OEL TWA	2 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL STEL	4 mg/m <sup>3</sup>
<b>Northwest Territories</b>	OEL TWA	2 mg/m <sup>3</sup>
<b>Ontario</b>	OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Prince Edward Island</b>	OEL TWA	1 mg/m <sup>3</sup> (inhalable fraction and vapor)
<b>Québec</b>	VEMP (OEL TWA)	1 mg/m <sup>3</sup> (inhalable fraction and vapour)
<b>Saskatchewan</b>	OEL STEL	4 mg/m <sup>3</sup>
<b>Saskatchewan</b>	OEL TWA	2 mg/m <sup>3</sup>
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>		
<b>USA ACGIH</b>	ACGIH OEL TWA [ppm]	100 ppm
<b>USA ACGIH</b>	ACGIH OEL STEL [ppm]	150 ppm
<b>USA ACGIH</b>	ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA OSHA</b>	OSHA PEL (TWA) [1]	600 mg/m <sup>3</sup>
<b>USA OSHA</b>	OSHA PEL (TWA) [2]	100 ppm
<b>USA OSHA</b>	Limit value category (OSHA)	prevent or reduce skin absorption
<b>USA NIOSH</b>	NIOSH REL (TWA)	600 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL TWA [ppm]	100 ppm
<b>USA NIOSH</b>	NIOSH REL (STEL)	900 mg/m <sup>3</sup>
<b>USA NIOSH</b>	NIOSH REL STEL [ppm]	150 ppm
<b>USA IDLH</b>	IDLH [ppm]	600 ppm
<b>Alberta</b>	OEL STEL	909 mg/m <sup>3</sup>
<b>Alberta</b>	OEL STEL [ppm]	150 ppm
<b>Alberta</b>	OEL TWA	606 mg/m <sup>3</sup>
<b>Alberta</b>	OEL TWA [ppm]	100 ppm
<b>British Columbia</b>	OEL STEL [ppm]	150 ppm
<b>British Columbia</b>	OEL TWA [ppm]	100 ppm
<b>Manitoba</b>	OEL STEL [ppm]	150 ppm
<b>Manitoba</b>	OEL TWA [ppm]	100 ppm
<b>New Brunswick</b>	OEL STEL	909 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL STEL [ppm]	150 ppm
<b>New Brunswick</b>	OEL TWA	606 mg/m <sup>3</sup>
<b>New Brunswick</b>	OEL TWA [ppm]	100 ppm
<b>Newfoundland &amp; Labrador</b>	OEL STEL [ppm]	150 ppm
<b>Newfoundland &amp; Labrador</b>	OEL TWA [ppm]	100 ppm
<b>Nova Scotia</b>	OEL STEL [ppm]	150 ppm
<b>Nova Scotia</b>	OEL TWA [ppm]	100 ppm
<b>Nunavut</b>	OEL STEL [ppm]	150 ppm
<b>Nunavut</b>	OEL TWA [ppm]	100 ppm
<b>Northwest Territories</b>	OEL STEL [ppm]	150 ppm
<b>Northwest Territories</b>	OEL TWA [ppm]	100 ppm
<b>Ontario</b>	OEL STEL [ppm]	150 ppm
<b>Ontario</b>	OEL TWA [ppm]	100 ppm
<b>Prince Edward Island</b>	OEL STEL [ppm]	150 ppm
<b>Prince Edward Island</b>	OEL TWA [ppm]	100 ppm
<b>Québec</b>	VECD (OEL STEL)	909 mg/m <sup>3</sup>
<b>Québec</b>	VECD (OEL STEL) [ppm]	150 ppm
<b>Québec</b>	VEMP (OEL TWA)	606 mg/m <sup>3</sup>
<b>Québec</b>	VEMP (OEL TWA) [ppm]	100 ppm

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Saskatchewan	OEL STEL [ppm]	150 ppm
Saskatchewan	OEL TWA [ppm]	100 ppm
<b>1,2,3-Propanetriol (56-81-5)</b>		
USA OSHA	OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup> (mist, total particulate) 5 mg/m <sup>3</sup> (mist, respirable fraction)
Alberta	OEL TWA	10 mg/m <sup>3</sup> (mist)
British Columbia	OEL TWA	10 mg/m <sup>3</sup> (mist, total) 3 mg/m <sup>3</sup> (mist-respirable)
New Brunswick	OEL TWA	10 mg/m <sup>3</sup> (mist)
Nunavut	OEL STEL	20 mg/m <sup>3</sup> (mist)
Nunavut	OEL TWA	10 mg/m <sup>3</sup> (mist)
Northwest Territories	OEL STEL	20 mg/m <sup>3</sup> (mist)
Northwest Territories	OEL TWA	10 mg/m <sup>3</sup> (mist)
Québec	VEMP (OEL TWA)	10 mg/m <sup>3</sup> (mist)
Saskatchewan	OEL STEL	20 mg/m <sup>3</sup> (mist)
Saskatchewan	OEL TWA	10 mg/m <sup>3</sup> (mist)
Yukon	OEL TWA	30 mppcf (mist) 10 mg/m <sup>3</sup> (mist)
<b>Formaldehyde (50-00-0)</b>		
USA ACGIH	ACGIH OEL TWA [ppm]	0.1 ppm
USA ACGIH	ACGIH OEL STEL [ppm]	0.3 ppm
USA ACGIH	ACGIH chemical category	Confirmed Human Carcinogen,dermal sensitizer
USA OSHA	OSHA PEL (TWA) [2]	0.75 ppm
USA OSHA	OSHA PEL (STEL) [2]	2 ppm (see 29 CFR 1910.1048)
USA OSHA	OSHA Action Level/Excursion Limit	0.5 ppm (Action level, see 29 CFR 1910.1028)
USA NIOSH	NIOSH REL TWA [ppm]	0.016 ppm
USA NIOSH	NIOSH REL C [ppm]	0.1 ppm
USA IDLH	IDLH [ppm]	20 ppm
Alberta	OEL C	1.3 mg/m <sup>3</sup>
Alberta	OEL Ceiling [ppm]	1 ppm
Alberta	OEL TWA	0.9 mg/m <sup>3</sup>
Alberta	OEL TWA [ppm]	0.75 ppm
British Columbia	OEL STEL [ppm]	0.3 ppm
British Columbia	OEL TWA [ppm]	0.1 ppm
Manitoba	OEL STEL [ppm]	0.3 ppm
Manitoba	OEL TWA [ppm]	0.1 ppm
New Brunswick	OEL STEL [ppm]	1.5 ppm
New Brunswick	OEL TWA [ppm]	0.5 ppm
Newfoundland & Labrador	OEL STEL [ppm]	0.3 ppm
Newfoundland & Labrador	OEL TWA [ppm]	0.1 ppm
Nova Scotia	OEL STEL [ppm]	0.3 ppm
Nova Scotia	OEL TWA [ppm]	0.1 ppm
Nunavut	OEL Ceiling [ppm]	0.3 ppm
Northwest Territories	OEL Ceiling [ppm]	0.3 ppm
Ontario	OEL STEL [ppm]	1 ppm
Ontario	OEL TWA [ppm]	0.1 ppm
Prince Edward Island	OEL STEL [ppm]	0.3 ppm
Prince Edward Island	OEL TWA [ppm]	0.1 ppm
Québec	Plafond (OEL Ceiling)	3 mg/m <sup>3</sup>
Québec	Plafond (OEL Ceiling) [ppm]	2 ppm
Saskatchewan	OEL Ceiling [ppm]	0.3 ppm
Yukon	OEL C	3 mg/m <sup>3</sup>

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Yukon	OEL Ceiling [ppm]	2 ppm
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### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: White
Odor	: According to product specification
Odor Threshold	: No data available
pH	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: No data available
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available
Vapor Pressure	: No data available
Relative Vapor Density at 20°C	: No data available
Relative Density	: No data available
Specific Gravity	: No data available
Solubility	: Water: Fully Miscible
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: No data available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical Stability:

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products:

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Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Metal oxides. Acrolein.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:**

No additional information available

**Skin Corrosion/Irritation:** Not classified

**Eye Damage/Irritation:** Not classified

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** None expected under normal conditions of use

**Potential Adverse human health effects and symptoms:** Based on available data, the classification criteria are not met.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>	
LD50 Oral Rat	> 15900 mg/kg
<b>Triethanolamine (102-71-6)</b>	
LD50 Oral Rat	6400 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
<b>Diethanolamine (111-42-2)</b>	
LD50 Oral Rat	1820 mg/kg
LD50 Dermal Rabbit	11.9 ml/kg
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
LD50 Oral Rat	> 5000 mg/kg (Species: Sprague-Dawley)
LD50 Dermal Rabbit	9500 mg/kg
<b>1,2,3-Propanetriol (56-81-5)</b>	
LD50 Oral Rat	12600 mg/kg
LD50 Dermal Rabbit	> 10 g/kg
<b>Formaldehyde (50-00-0)</b>	
LD50 Oral Rat	100 mg/kg
LD50 Dermal Rat	270 mg/kg
LC50 Inhalation Rat	< 463 ppm/4h
ATE US/CA (gas)	700.00 ppmV/4h
<b>Triethanolamine (102-71-6)</b>	
IARC Group	3
<b>Diethanolamine (111-42-2)</b>	
IARC Group	2B
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
<b>Formaldehyde (50-00-0)</b>	
IARC Group	1



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National Toxicology Program (NTP) Status

Known Human Carcinogens.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General: Not classified.

Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
LC50 Fish 1	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
NOEC (Acute)	> 50 mg/l
Triethanolamine (102-71-6)	
LC50 Fish 1	10600 (10600 – 13000) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	1386 mg/l
LC50 Fish 2	1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
ErC50 algae	169 mg/l
NOEC Chronic Crustacea	16 mg/l
Diethanolamine (111-42-2)	
LC50 Fish 1	4460 (4460 – 4980) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	55 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1200 (1200 – 1580) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Other Aquatic Organisms 2	2.1 (2.1 – 2.3) mg/l (Exposure time: 96 h - Species: Pseudokirchneriella subcapitata)
ErC50 algae	2.2 mg/l (Exposure time: 96 h - Species: Pseudokirchnerella subcapitata [Static])
NOEC Chronic Crustacea	0.78 mg/l
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)	
LC50 Fish 1	> 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)
1,2,3-Propanetriol (56-81-5)	
LC50 Fish 1	54000 (51000 – 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Formaldehyde (50-00-0)	
LC50 Fish 1	22.6 – 25.7 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 - Crustacea [1]	2 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 Fish 2	1510 µg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 - Crustacea [2]	11.3 – 18 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
NOEC Chronic Crustacea	1 mg/l

### 12.2. Persistence and Degradability

WinBright	
Persistence and Degradability	Not established.
Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)	
Persistence and Degradability	Readily biodegradable.

### 12.3. Bioaccumulative Potential

WinBright	
Bioaccumulative Potential	Not established.
Triethanolamine (102-71-6)	
BCF Fish 1	3.9
Partition coefficient n-octanol/water (Log Pow)	-2.53
Diethanolamine (111-42-2)	
BCF Fish 1	(no significant bioconcentration)
Partition coefficient n-octanol/water	-2.46 (at 25 °C (at pH 6.8-7.3))

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<b>(Log Pow)</b>	
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.35 (at 25 °C (at pH 7)
<b>Bioaccumulative Potential</b>	Not expected to bioaccumulate.
<b>1,2,3-Propanetriol (56-81-5)</b>	
<b>BCF Fish 1</b>	(no bioaccumulation)
<b>Partition coefficient n-octanol/water (Log Pow)</b>	-1.75 (at 25 °C (at pH 7.4)
<b>Formaldehyde (50-00-0)</b>	
<b>Partition coefficient n-octanol/water (Log Pow)</b>	0.35 (at 25 °C)

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

Not regulated for transport

### 14.2. In Accordance with IMDG

Not regulated for transport

### 14.3. In Accordance with IATA

Not regulated for transport

### 14.4. In Accordance with TDG

Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>SARA Section 313 - Emission Reporting</b>	1 % (fibrous forms)
<b>Triethanolamine (102-71-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Diethanolamine (111-42-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 313 - Emission Reporting</b>	1 %
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>1,2,3-Propanetriol (56-81-5)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Formaldehyde (50-00-0)</b>	

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Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
Listed on the United States SARA Section 302	
Subject to reporting requirements of United States SARA Section 313	
<b>CERCLA RQ</b>	100 lb
<b>SARA Section 302 Threshold Planning Quantity (TPQ)</b>	500 lb
<b>SARA Section 313 - Emission Reporting</b>	0.1 %

### 15.2. US State Regulations

#### California Proposition 65

 **WARNING:** This product can expose you to Diethanolamine, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Diethanolamine (111-42-2)	X			
Formaldehyde (50-00-0)	X			

<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Triethanolamine (102-71-6)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Diethanolamine (111-42-2)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
<b>Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>1,2,3-Propanetriol (56-81-5)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
<b>Formaldehyde (50-00-0)</b>
U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

### 15.3. Canadian Regulations

<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Triethanolamine (102-71-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Diethanolamine (111-42-2)</b>
Listed on the Canadian DSL (Domestic Substances List)

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### Propanol, 1(or 2)-(2-methoxymethylethoxy)- (34590-94-8)

Listed on the Canadian DSL (Domestic Substances List)

### 1,2,3-Propanetriol (56-81-5)

Listed on the Canadian DSL (Domestic Substances List)

### Formaldehyde (50-00-0)

Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest** : 11/22/2022

### Revision

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

H227	Combustible liquid
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS 2015 (Can, US)