



# Material Safety Data Sheet

Material Name: PERSIST<sup>®</sup> ULTRA - Methylated Canola Oil Plus Surfactant

## \*\*\* Section 1 - Chemical Product and Company Identification \*\*\*

### Manufacturer Information

Precision Laboratories  
1429 S. Shields Drive  
Waukegan, IL 60085

Phone: 847-596-3001

Emergency # 800-424-9300 CHEMTREC

## \*\*\* Section 2 - Hazards Identification \*\*\*

### Emergency Overview

May cause eye, skin and respiratory tract irritation.

### Potential Health Effects: Eyes

Prolonged contact may cause irritation or reddening.

### Potential Health Effects: Skin

May cause irritation.

### Potential Health Effects: Ingestion

May cause nausea, abdominal discomfort, vomiting, diarrhea and mucosal irritation.

### Potential Health Effects: Inhalation

Aspiration during vomiting may cause lung injury.

### HMIS Ratings: Health: 1 Fire: 1 HMIS Reactivity 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS #	Component	Percent
67762-38-3	Fatty acids, C16-18 and C18-unsaturated, methyl esters	70-90
Trade Secret	Nonionic surfactant	5-15
71-36-3	1-Butanol	<3

## \*\*\* Section 4 - First Aid Measures \*\*\*

### First Aid: Eyes

Check for and remove contact lenses. Immediately flush eyes with water for at least 15 minutes. Cold water may be used. Seek immediate medical attention.

### First Aid: Skin

Immediately remove contaminated clothing and wash affected area with plenty of soap and water. Cold water may be used. Seek medical attention if irritation occurs.

### First Aid: Ingestion

**Do not induce vomiting unless directed to do so by medical personnel.** Never give fluids or force vomiting if the person is unconscious, is having convulsions or has no gag reflex. Seek immediate medical attention.

### First Aid: Inhalation

Move individual to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

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## \*\*\* Section 5 - Fire Fighting Measures \*\*\*

### General Fire Hazards

See Section 9 for Flammability Properties.  
Noncombustible.

### Hazardous Combustion Products

Carbon oxides and other substances.

### Extinguishing Media

Water spray, dry chemical, foam or CO<sub>2</sub>.

### Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.  
Use water to keep containers cool. Water or foam may cause frothing.

**NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Containment Procedures

Stop the flow of material, if this is without risk.

### Clean-Up Procedures

Wear NIOSH approved respirator and protective equipment as referenced in Section 8. Recover free liquid. For recovery or disposal, add inert absorbent (sand, earth, sawdust, etc.) to spill area and shovel into containers for disposal. Product is slippery under foot; flush smooth surfaces thoroughly. See Section 13 for disposal considerations.

### Evacuation Procedures

Evacuate the spill area, except for cleanup personnel.

### Special Procedures

This product is classified as an oil under Section 311 of the Clean Water Act. Discharge to surface waters that cause a sheen must be reported to the National Response Center (800-424-8802).

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

Keep away from heat, sparks and flame. Keep container closed. Wear appropriate equipment and clothing to prevent eye contact and repeated or prolonged skin contact as referenced in Section 8. Use in areas with adequate mechanical exhaust ventilation, or wear respirator.

### Storage Procedures

Protect product from freezing. If product freezes, warm to room temperature and agitate before use. Keep containers sealed when not in use. Store in original container only.

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## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Component Exposure Limits

#### 1-Butanol (71-36-3)

ACGIH: 20 ppm TWA  
OSHA: 50 ppm Ceiling; 150 mg/m<sup>3</sup> Ceiling  
Prevent or reduce skin absorption  
NIOSH: 50 ppm Ceiling; 150 mg/m<sup>3</sup> Ceiling  
Potential for dermal absorption

### Engineering Controls

Note: When selecting personal protective equipment and clothing, follow all of the manufacturer specifications and recommendations that apply to your specific operation and processing conditions. Take into consideration all working conditions and all chemicals to be handled or processed.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment: Eyes/Face

Wear splash-proof chemical safety goggles. Contact lenses should not be worn when working with chemicals.

#### Personal Protective Equipment: Skin

Wear chemical-resistant gloves, long-sleeved shirt, pants, socks and shoes to minimize skin contact. As precautions, wash hands and face with mild soap and water before eating, drinking, smoking or using restroom. After each shift, clean all protective equipment, wash work clothes, and shower.

#### Personal Protective Equipment: Respiratory

Not required under normal use conditions with good ventilation. Protect against spray mists. Respirator recommended in areas of poor ventilation.

#### Personal Protective Equipment: General

Eye wash fountains and drench showers should be located within 100 feet or a 10 second walk from the work area per ANSI Z358.1. Keep vapor concentration below 50 ppm, General dilution recommended.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance:</b>	Amber colored, oily	<b>Odor:</b>	Characteristic
<b>Physical State:</b>	Liquid	<b>pH:</b>	6-7 ± 0.5
<b>Vapor Pressure:</b>	ND	<b>Vapor Density:</b>	ND
<b>Boiling Point:</b>	ND	<b>Melting Point:</b>	ND
<b>Solubility (H<sub>2</sub>O):</b>	Emulsifiable	<b>Specific Gravity:</b>	ND
<b>Evaporation Rate:</b>	ND	<b>VOC:</b>	ND
<b>Octanol/H<sub>2</sub>O Coeff.:</b>	ND	<b>Flash Point:</b>	350°F
<b>Flash Point Method:</b>	ND	<b>Upper Flammability Limit</b>	ND
		<b>(UFL):</b>	
<b>Lower Flammability Limit</b>	ND	<b>Burning Rate:</b>	ND
<b>(LFL):</b>			
<b>Auto Ignition:</b>	ND		

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## \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

### Chemical Stability

This is a stable material.

### Chemical Stability: Conditions to Avoid

Freezing or other extreme temperatures.

### Incompatibility

Strong oxidants such as liquid chlorine, sodium hypochlorite (explosion hazard).

### Hazardous Decomposition

Carbon oxides and other substances.

### Possibility of Hazardous Reactions

Will not occur.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Acute Dose Effects

#### A: General Product Information

Acute Eye: Minimal effects clearing in less than 24 hours. No "positive" effect at 24 hours.

Acute Dermal: Non-irritating, mild or slight irritation at 72 hours.

#### B: Component Analysis - LD50/LC50

##### Fatty acids, C16-18 and C18-unsaturated, methyl esters (67762-38-3)

Oral LD50 Rat >2000 mg/kg

##### 1-Butanol (71-36-3)

Inhalation LC50 Rat >17.7 mg/L 4 h; Inhalation LC50 Rat 8000 ppm 4 h; Oral LD50 Rat 790 mg/kg; Dermal LD50 Rabbit 3400 mg/kg

### Carcinogenicity

#### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

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## \*\*\* Section 12 - Ecological Information \*\*\*

### Ecotoxicity

#### A: General Product Information

No information available for the product.

#### B: Component Analysis - Ecotoxicity - Aquatic Toxicity

##### Fatty acids, C16-18 and C18-unsaturated, methyl esters (67762-38-3)

###### Test & Species

###### Conditions

48 Hr LC50 Leuciscus idus 5500 mg/L [static]

##### 1-Butanol (71-36-3)

###### Test & Species

###### Conditions

96 Hr LC50 Pimephales promelas 1730-1910 mg/L [static]

96 Hr LC50 Pimephales promelas 1740 mg/L [flow-through]

96 Hr LC50 Lepomis macrochirus 100000-500000 µg/L [static]

96 Hr LC50 Pimephales promelas 1910000 µg/L [static]

96 Hr EC50 Desmodemus subspicatus >500 mg/L

72 Hr EC50 Desmodemus subspicatus >500 mg/L

48 Hr EC50 Daphnia magna 1983 mg/L

48 Hr EC50 Daphnia magna 1897 - 2072 mg/L [Static]

## \*\*\* Section 13 - Disposal Considerations \*\*\*

### US EPA Waste Number & Descriptions

#### Component Waste Numbers

##### 1-Butanol (71-36-3)

RCRA: waste number U031 (Ignitable waste)

#### Disposal Instructions

Recycle or rework material if at all possible. Incinerate material at an approved facility. Treat at an acceptable waste treatment facility, or municipal waste treatment plant after proper testing and approval of waste samples in compliance with applicable federal, state and local environmental regulations. Container Reuse: Do not reuse empty container as it may contain product residue. Rinse container thoroughly prior to disposal. Dispose of rinsate and container in accordance with local, state and federal regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

## \*\*\* Section 14 - Transportation Information \*\*\*

### US DOT Information

Shipping Name: Not Regulated

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## \*\*\* Section 15 - Regulatory Information \*\*\*

### US Federal Regulations

#### Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

##### 1-Butanol (71-36-3)

SARA 313: 1.0 % de minimis concentration

CERCLA: 5000 lb final RQ; 2270 kg final RQ

### State Regulations

#### Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
1-Butanol	71-36-3	Yes	Yes	Yes	Yes	Yes	No

#### Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
1-Butanol	71-36-3	1 %

### Additional Regulatory Information

#### Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Fatty acids, C16-18 and C18-unsaturated, methyl esters	67762-38-3	Yes	DSL	EINECS
1-Butanol	71-36-3	Yes	DSL	EINECS

## \*\*\* Section 16 - Other Information \*\*\*

### Other Information

WHILE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO BE ACCURATE AS OF THE DATE HEREON, PRECISION LABORATORIES, INC., MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

### Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

End of Sheet