

## SAFETY DATA SHEET



**Product Name:** Pro-Soft Dehydrant

**Date:** June 1, 2015

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### SECTION 1: IDENTIFICATION

**Product:** Pro-Soft Dehydrant

**Product number:** 310, 311, 315, 319

**Synonyms:** Dehydrant for histological tissue processing

**Recommended use:** Laboratory chemical

#### Company

Anatech Ltd 1020 Harts Lake Road Battle Creek, MI 49037, USA	24 hour Transportation Emergency Product Technical Information Supplier General Contact	800.424.9300 CHEMTREC 800.262.8324, M-F, 8 AM-5 PM, ET 800.262.8324, M-F, 8 AM-5 PM, ET
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### SECTION 2: HAZARD(S) IDENTIFICATION

#### Classification of substance

Flammable liquid (Category 2)

Eye damage/irritation (Category 2A)

Specific target organ toxicity, single exposure (STOT-SE) (Category 3) (Respiratory irritant, central nervous system)

#### Signal word

Danger

#### Hazard statement

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause respiratory irritation.

May cause drowsiness or dizziness.

#### Pictogram



#### Precautionary statements

##### Prevention

Avoid breathing mist/vapors/spray.

Wash skin thoroughly after handling.

Use in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

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### Response

Call poison center or get medical advice/attention if you feel unwell.

If on skin/hair: Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

In case of fire: Use dry chemical, carbon dioxide, water spray or alcohol resistant foam to extinguish.

If eye irritation persists: Get medical advice/attention.

### Storage

Store in a well-ventilated place.

Keep container tightly closed.

Keep cool.

Store locked up.

### Disposal

Dispose of contents/containers in accordance with governmental regulations.

### Hazards not otherwise classified

None as defined under 29 CFR 1900.1200

## SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical name	CAS#	Concentration
Isopropyl alcohol	67-63-0	*
Propylene glycol ether	*	*
Propylene glycol ester	*	<1%

\*As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals in accordance with applicable provisions of paragraph (i).

## SECTION 4: FIRST-AID MEASURES

### Description of first-aid measures

<b>Inhalation</b>	Remove victim to fresh air if coughing or difficulty in breathing is experienced. Consult a physician if symptoms persist or worsen. Administer oxygen or artificial respiration as needed.
<b>Eye</b>	Flush eyes for at least 15 minutes in an eyewash station. Consult a physician.
<b>Skin</b>	Remove contaminated clothing, including footwear; wash before reuse or discard. For minor exposure, wash affected area with water and mild soap, rinsing thoroughly. In cases of prolonged, repeated or extensive exposure, rinse affected area or entire body for at least 15 minutes. Consult a physician.
<b>Ingestion</b>	Call a poison center immediately.

### Important symptoms, acute and delayed

Brief contact with skin is nonirritating. Prolonged contact can cause irritation.

Ingestion is likely to cause adverse effects on gastrointestinal tract.

Respiratory tract irritation and/or headaches possible.

### Recommendations for immediate medical care and special treatment

See listed first-aid procedures. No information available for special treatment. Treat according to symptoms.

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### **SECTION 5: FIRE-FIGHTING MEASURES**

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#### **Suitable and unsuitable extinguishing media**

Use dry chemical, carbon dioxide, water spray or alcohol resistant foam.

#### **Specific hazards arising from the product**

Heat from fire can generate flammable vapor. Vapors may travel to source of ignition and flash back. Carbon oxides expected to be primary hazardous combustion products.

#### **Special protective equipment/precautions for fire-fighters**

Fire-fighters should wear self-contained breathing apparatus. Keep unopened containers cool by spraying with water.

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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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#### **Personal precautions**

Ensure adequate ventilation.  
Avoid inhalation of vapors.  
Avoid contact with skin and eyes.  
Eliminate sources of ignition.  
Take precautionary measures against static electricity.

#### **Protective equipment**

Wear protective gloves, impermeable aprons and splash-proof goggles.

#### **Emergency procedures**

See information in sub-section above.

#### **Methods and materials for containment and cleanup**

Eliminate sources of ignition with large spills.  
Take precautionary measures against static electricity.  
Contain and soak up spill with inert absorbent material. Small spills can be cleaned with a damp sponge.  
Discard absorbents and other contaminated solids in a suitable trash receptacle.  
Dispose absorbents and other contaminated solids as a hazardous waste.  
Wash contaminated area with soap and water.

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### **SECTION 7: HANDLING AND STORAGE**

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#### **Precautions for safe handling**

Avoid contact with skin and eyes.  
Avoid inhalation of vapors.  
Wear protective gloves, impermeable aprons and splash-proof goggles.  
With large volumes (55 gallon drum), material will accumulate static. Use proper grounding procedures for storage and when moving to transfer containers.

#### **Conditions for safe storage including incompatibilities**

Keep containers tightly closed.  
Store at room temperature.  
Consult local fire codes for additional storage information.

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### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Exposure limits

Chemical name	CAS#	Exposure Limit	Value
Isopropyl alcohol	67-63-0	OSHA (STEL) OSHA (TWA) ACGIH (STEL) ACGIH (TWA)	500 ppm 400 ppm 400 ppm 200 ppm
Propylene glycol ether	Trade secret	OSHA (TWA)	100 ppm
Propylene glycol ester	Trade secret	None established	

#### Appropriate engineering controls

Good general room ventilation should be provided so that exposure limits are not exceeded.

If required provide local exhaust ventilation to control vapors.

#### Personal protective measures

<b>Respiratory protection</b>	None needed for this concentration. When risk assessment shows one is necessary, wear respirator with organic vapor cartridge.
<b>Eye protection</b>	Use splash-proof goggles. Wear face shield if splashing hazard exists. An eyewash station must be nearby, no more than 10 seconds away.
<b>Skin protection</b>	Wear nitrile or chemical resistant gloves. Do not use latex surgical gloves for protection. Safety shower must be nearby, no more than 10 seconds away.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear, colorless liquid
Odor	Medicinal odor similar to rubbing alcohol
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No information available
Initial boiling point and boiling range	Approximately 180°F (82°C)
Flash point	66°F (18.9°C) closed cup
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Upper/lower flammability or explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	0.8624 at 20°C
Solubility(ies)	Complete in water
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition	No information available
Viscosity	No information available

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### SECTION 10: STABILITY AND REACTIVITY

#### Reactivity

No hazardous reactions if stored and handled as indicated.

#### Chemical stability

Stable under recommended storage conditions.

#### Possibility of hazardous reaction

The product is chemically stable.

#### Conditions to avoid

Heat, sparks, open flame and other ignition sources. Temperatures greater than flash point.

#### Incompatible materials

Strong oxidizing agents.

#### Hazardous decomposition products

No hazardous decomposition products if stored and handled as indicated.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Likely routes of exposure

Skin, eye, inhalation.

#### Symptoms related to physical, chemical and toxicological characteristics

The following statements are based on data for undiluted isopropyl alcohol. No information is known for Pro-Soft Dehydrant.

May cause respiratory tract irritation.

May cause slight skin irritation.

Causes serious eye irritation.

#### Delayed and immediate effects

See information in sub-section above.

#### Chronic effects from short- and long-term exposure

No information available for this product.

#### Numerical measures of toxicity

No information is known for Pro-Soft Dehydrant.

The following data are for undiluted isopropyl alcohol.

Acute toxicity, skin (rabbit)	LD <sub>50</sub> =12,800 mg/kg
Acute toxicity, inhalation (rat)	LC <sub>50</sub> =16,000 mg/kg, 8 hours
Acute toxicity, oral (rat)	LD <sub>50</sub> =5,045 mg/kg. Behavioral abnormalities observed such as altered sleep time and decreased activity.

#### Assessment of other acute effects

Specific target organ toxicity, single exposure (STOT-SE): may cause respiratory irritation; may cause drowsiness or dizziness -central nervous system.

#### Carcinogenicity

None as defined by 29 CFR 1900.1200.

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### SECTION 12: ECOLOGICAL INFORMATION

#### Ecotoxicity

No environmental information is known for Pro-Soft Dehydrant.

The following data are from studies using undiluted isopropyl alcohol.

LC=lethal concentration; EC=effective concentration

Test	Duration	Organism	Test Results
Toxicity-fish	96 hours	<i>Pimephales promelas</i>	LC <sub>50</sub> : 9,640 mg/l
Aquatic invertebrates	24 hours	Water flea	EC <sub>50</sub> : 5,102 mg/l
Aquatic plants	72 hours	<i>Desmodesmus subspicatus</i>	EC <sub>50</sub> :> 2,000 mg/l (growth rate)

#### Persistence and degradability

Readily biodegradable (undiluted materials).

#### Bioaccumulative potential

Based on assessment of components, not expected to bioaccumulate.

#### Mobility in soil

No information available.

#### Other adverse effects

No information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

Drain disposal may be possible with the permission of local wastewater treatment authorities. Otherwise contact a licensed professional waste disposal service to dispose of this material. Proper waste disposal is the generator's responsibility. Follow federal, state (provincial) and local regulations.

### SECTION 14: TRANSPORT INFORMATION

#### DOT (USA) and IATA

Proper Shipping Name: Flammable liquid, n.o.s. (propyl alcohol)

Identification Number: UN1993

Hazard Class: 3

Packing Group: II

#### Marine pollutant

No information available.

### SECTION 15: REGULATORY INFORMATION

#### OSHA Hazard Communication Standard

This product is considered hazardous in accordance with 29 CFR 1910.1200.

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### SECTION 16: OTHER INFORMATION

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#### NFPA (National Fire Protection Association) Rating

General note: The ratings provide information to emergency personnel on the fire hazards associated with the chemical. It is not descriptive of hazards under normal conditions of occupational use.

<b>Health</b>	1	Materials that, under emergency conditions, can cause significant irritation.
<b>Flammability</b>	3	Liquids and solids that can be ignited under almost all ambient temperature conditions. Materials in this degree produce hazardous atmospheres with air under almost all ambient temperatures or, though unaffected by ambient temperatures, are readily ignited under almost all conditions.
<b>Instability</b>	0	Materials that in themselves are normally stable, even under fire conditions.

#### Disclaimer

Anatech Ltd. believes the information in the SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn may be from sources other than direct test data on the substance itself. It is the user's responsibility to determine suitability of the product for his/her own use, and to assure proper use and disposal of it to protect the safety and health of employees and the protection of the environment.

#### Date of preparation

June 1, 2015