

# **Safety Data Sheet**

## 1. Material and Supply Company Identification

Product Name: PeCOD Pre-mixed Blank

Chemical Name: Lithium Nitrate and Sorbitol Solution

Synonyms:

Advanced Blue Range Pre-Mixed Blank Green Range Pre-Mixed Blank Yellow Range Pre-Mixed Blank Red Range Pre-Mixed Blank

**Product Use:** For the calibration and analysis of water samples on the MANTECH PeCOD® COD Analyzer.

# **Manufacturer Information:**

579453 Ontario Inc. o/a MANTECH 5473 Highway 6 North Guelph, ON, N1H 6J2

Phone: 519-763-4245

Emergency Phone Number: 519-763-4245 or 519-835-5252

### 2. Hazards Identification

## **Hazard Classification**

Health Hazard	<u>Class</u>	<u>Category</u>
	Eye irritation	2B
	Acute Toxicity, dermal	5
	Acute Toxicity, inhalation	4
	Acute toxicity, oral	4

### **Label Elements**

Symbol:





Signal Word: Warning

Hazard Statements: May cause eye irritation H320

May be harmful in contact with skin H313
May be harmful if inhaled H333
May be harmful if swallowed H303

Precautionary Statements: Wash hands thoroughly after handling P264

Avoid breathing mists or vapours P261

HMIS Ratings: Health: 1 Fire: 0 Physical Hazard: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate

3 = Serious 4 = Severe \* = Chronic

## 3. Composition Information

Component	CAS#	Percent
Lithium Nitrate	7790-69-4	<10%
Water	-	Balance

### 4. First Aid Measures

**Eye:** Immediately flush eyes with water for at least 15 minutes while holding eyes open. If irritation persists seek medical attention.

Skin: Wash with water for 15 minutes. If irritation persists seek medical attention

**Ingestion:** Rinse mouth with water. If swallowed, DO NOT induce vomiting unless directed to do so by a medical physician. Give a glass of water or milk. Never give anything by mouth to a patient who is unconscious or having convulsions.

**Inhalation:** Remove the patient from exposure.

## 5. Fire-Fighting Measures

### **General Fire Hazards:**

This product is an aqueous solution which will not burn. However, if evaporated to dryness this product is an oxidizer and can sustain combustion.

### **Hazardous Combustion Properties:**

Thermal decomposition products may include irritating vapors and toxic gases including oxides of



lithium and nitrogen. If heated to evaporation, this product may evolve oxygen and increase fire hazard.

## **Extinguishing Media:**

Dry chemical, foam, carbon dioxide, water fog.

## **Fire Fighting Equipment/Instructions:**

Firefighters should wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

NFPA Ratings: Health: 1 Fire: 0 Physical Hazard: 0

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate

3 = Serious 4 = Severe

### 6. Accidental Release Measures

### **Containment Procedures:**

Stop the flow of material if this is without risk. Wear appropriate personal protective equipment during clean-up. Contain the discharged material and dike the spilled material where possible. Prevent entry into sewers, drains, underground or contained spaces, water intakes and waterways. Avoid contact with combustible material.

### **Clean-Up Procedures:**

Absorb spill with inert material such as lime, polypads, or other suitable absorbent material. Shovel the absorbed material into appropriate container for disposal.

### **Evacuation Procedures:**

Isolate area. Keep unnecessary people away.

## **Special Procedures:**

Follow all local, State, Federal, and Provincial regulations for disposal. Wash area down with excess water.

## 7. Handling and Storage

### **Handling Procedures:**

Avoid eye contact and repeated or prolonged skin contact. Use with adequate ventilation. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection.



Avoid breathing fumes, mists or vapors. Avoid contact with skin, eyes and clothing. Keep container tightly closed when not in use. Wash thoroughly after handling.

### **Storage Procedures:**

Store in cool, dry, well ventilated place and out of direct sunlight. Store away from incompatible materials described in Section 10. Keep containers closed when not in use – check regularly for leaks.

# 8. Exposure Controls / Personal Protection

### **Exposure Guidelines**

### A: General Product Information:

Keep formation of airborne mists to a minimum

# **B: Component Exposure Limits:**

ACGIH, OSHA, NIOSH or the provinces of Canada have not developed exposure limits for this product

## **Engineering Controls:**

Natural ventilation should be adequate under normal conditions. Keep containers closed when not in use.

### Personal Protective Equipment (PPE)

Eyes/Face: Wear safety glasses

**Skin:** Wear impervious (neoprene) gloves and cotton/polyester lab coat or overalls

**Respiratory:** Use in a ventilated area.

**General:** Wash hands after handling material and before eating or drinking. Eyewash station required. **Other Protective Equipment:** An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

## 9. Physical and Chemical Properties

Appearance	Clear, colourless	<b>Evaporation Rate</b>	Similar to Water
Physical State	Liquid	Lower Flammable Limit (LFL)	Not Applicable
Odour	Odorless	Upper Flammable Limit (UFL)	Not Applicable
<b>Odour Threshold</b>	Not Applicable	Vapour Pressure	Not Available
рН	3-6	Vapour Density	Not Available
<b>Melting Point</b>	Not Available	Solubility (H₂O)	Miscible with Water
<b>Boiling Point</b>	>100°C (220°F)	Specific Gravity	1.19 - 1.21 @ 15°C (59°F)





Flash Point Not Applicable Auto Ignition Temperature Not Applicable

## 10. Stability and Reactivity

## **Chemical Stability:**

This is a stable material.

## **Conditions of Avoid:**

Avoid contact with extreme heat and incompatible materials.

## Incompatibility:

Strong acids; Fuel; Combustible materials.

## **Hazardous Decomposition Products:**

Lithium oxide; Nitrogen oxides (NOx); Oxygen.

## 11. Toxicological Information

#### ACUTE DOSE EFFECTS

### A: General Product Information:

This product may be moderately irritating to contaminated tissues.

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

No LD50 or LC50 available for this product.

## **Epidemiology:**

No Epidemiology data is available for this product

### Carcinogenicity:

### A: General Product Information:

No carcinogenicity data available for this product

## **B: Component Carcinogenicity:**

None of the products components are listed by ACGIH, IARC, OSHA, NIOSH or NTP.

### Mutagenicity:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.



### Teratogenicity:

No Teratogenicity data available for this product. This product is not expected to cause reproductive or developmental effects.

## **Neurological Effects:**

No Neurological data available for this product

## **Other Toxicological Information:**

No additional information available

## 12. Ecological Information

### **Ecotoxicity:**

No Ecotoxicity data available for this product

#### **Environmental Fate:**

No information available for this product

## 13. Disposal Considerations

### **Disposal Instructions:**

Dispose of waste according to Local, State, Federal and Provincial Environmental Regulations.

## 14. Transport Information

**UN Number:** None allocated

UN Proper Shipping Name: None allocated DG Class & Subsidiary Risk: None allocated

Packing Group: None allocated

#### DOT:

This product is not regulated as a hazardous material for transportation

### IATA:

This product is not regulated as a hazardous material for transportation

#### IMDG:

This product is not regulated as a hazardous material for transportation



## 15. Regulatory Information

## **US Federal Regulations**

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).

**Lithium nitrate (7790-69-4)** SARA 313: 1.0 % de minimis concentration

(reportable only when in aqueous solution, Chemical Category N511) (related to Nitrate Compounds, water

dissociable)

## **Canadian Regulations**

Not listed on the Canadian DSL (Domestic Substances List) inventory **WHMIS Classification:** Class D2B: Material Causing Other Toxic Effects

### **EU Regulations**

No additional information available

## **Additional Regulatory Information**

Component	CAS#	TSCA	DSL	NDSL	EINECS	AUST	<u>MITI</u>	PHIL	KOREA	ELINCS	CHINA
Water	7732-	Yes	Yes	No	Yes	Yes	Yes	No	Yes	No	Yes
	18-5										
Lithium Nitrate	7790-	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes
	69-4										

#### 16. Other Information

Workers should be trained to handle hazardous chemicals. It is recommended that they are familiar with the contents of this safety data sheet (SDS). This SDS is not a risk assessment; recipients are advised to make their own risk assessment as required by other Health and Safety legislations.

Created: January 7, 2019

Revised: August 21, 2019

Reference: Not Available

# MANTECH-INC.COM



### **DISCLAIMER**

The information contained in this SDS was compiled using the latest and most reliable information currently available to MANTECH. The information given, is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification, expressed or implied, regarding its correctness or accuracy nor will MANTECH. assume any liability for any loss or damage arising out of the use of this information including without limitation direct or indirect losses or expenses. To the extent permitted by law, no warranty, expressed or implied, regarding the product described herein shall be created by or inferred from any statement or omission from this SDS. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is solely the responsibility of the user to determine safe conditions for use of this product and to assume liability for any loss, damage, or expense whatsoever arising out of the product's improper use.