

# MATERIAL SAFETY DATA SHEET

**BIRCHWOOD CASEY®**  
**PERMA BLUE® LIQUID GUN BLUE**

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DATE REVISED: 12/3/12  
REVISION MSDS NO. 5300-08

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **PERMA BLUE® LIQUID GUN BLUE**

PRODUCT PART NUMBERS: 13125, 13132, 53000

MANUFACTURED BY: BIRCHWOOD CASEY LLC

7887 Fuller Road

Eden Prairie, MN 55344 USA

Product Information Telephone Number: (952) 388-6717 (8:00-4:00pm CST)

Fax Number: (952) 388-6718

[www.birchwoodcasey.com](http://www.birchwoodcasey.com)

**24 HOUR TRANSPORTATION EMERGENCY NUMBER: CHEMTREC 800-424-9300 U.S. & CANADA**

**703-527-3887 INTERNATIONAL (Collect)**

**24 HOUR POISON CONTROL EMERGENCY NUMBER: 866-291-7152 U.S. & CANADA**

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## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: **DANGER! POISON. Corrosive.** May be fatal if swallowed or harmful if inhaled. Causes severe burns to eyes and skin. **OXIDIZER.** Combustible materials that contact this product may ignite more easily and burn more intensely. Avoid shock, heat, friction.

APPEARANCE/ODOR: Clear liquid, odorless.

EYE CONTACT: Severe or permanent eye damage, symptoms of redness, burning.

SKIN CONTACT: Burns upon direct contact, symptoms of redness, burning.

INGESTION: Severe burns of mouth, throat and stomach. Other possible symptoms include nausea, abdominal pain, vomiting.

INHALATION: If sprayed, severe irritation of respiratory tract and mucous membranes; coughing, difficulty breathing.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Description	CAS #	Weight %	OSHA PEL* TWA	OSHA PEL STEL/C	ACGIH TLV TWA	ACGIH TLV STEL/C
Selenious Acid**	7783-00-8	3	0.2 mg/m <sup>3</sup>	NE	0.2 mg/m <sup>3</sup>	NE
Nitric Acid	7697-37-2	3	5 mg/m <sup>3</sup>	NE	5.2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> -STEL
Cupric Sulfate	7758-99-8	3	1 mg/m <sup>3</sup>	NE	1 mg/m <sup>3</sup>	NE
Water	7732-18-5	91	NE	NE	NE	NE

TWA – Time-weighted Average STEL – Short-term exposure limit C – Ceiling

(skin) – skin designation means that harmful amounts may be absorbed through the skin

\* Certain States enforce PELs that were in place in 1989, but were later removed by the U.S. Supreme Court. Check with your State OSHA to determine which PEL is enforced in your State.

\*\* OELs as Selenium Compounds

NE = not established NA = not applicable NDA = no data available

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## 4. FIRST AID MEASURES

EYE CONTACT: Flush immediately with clean water. Continue for at least 15 minutes. Seek immediate medical attention.

SKIN CONTACT: Remove contaminated clothing to avoid prolonged contact. Wash affected areas with water. Seek medical attention if irritation develops.

INGESTION: Do not induce vomiting - call poison control center IMMEDIATELY (866-291-7152) for further instructions.

INHALATION: Remove from exposure. Seek medical attention if necessary if breathing is difficult.

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## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

FLASHPOINT: None

METHOD USED: NA

FLAMMABLE LIMITS: LFL: NA

UFL: NA

EXTINGUISHING MEDIA: Non-flammable. Use media as appropriate for surrounding materials.

FIRE & EXPLOSION HAZARDS: May react with metals to release hydrogen gas, which can form explosive mixtures with air.

SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear approved SCBA and full turn-out gear.

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## 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear recommended protective equipment. Recover as much free liquid as possible and collect in acid-resistant container. Use absorbent to pick up residue. Avoid discharging liquid directly into a sewer or surface waters.

Review current local, state and federal laws, codes, statutes, and regulations to determine appropriate agencies to be notified, and the conditions under which they are to be notified. (See Section 13 for waste disposal comments).

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## 7. HANDLING AND STORAGE

HANDLING: Avoid breathing mists or spray. Avoid eye and skin contact. Wear protective equipment when handling product. Keep out of the reach of children.

STORAGE: Store in cool, dry area. Store in acid-resistant containers. Keep containers covered when not in use. Avoid storing with incompatible materials (refer to Section 10). Empty containers may retain hazardous (solid) product residues.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use a NIOSH approved respirator (supplied air type) if any of the occupational exposure limits in Section 3 may be exceeded.

EYE PROTECTION: goggles, face shield

PROTECTIVE GLOVES / BODY PROTECTION: neoprene

VENTILATION: Use general/dilution or local exhaust ventilation as needed to ensure that occupational exposure limits are not exceeded.

OTHER PROTECTIVE EQUIPMENT: Eyewash and emergency shower

NOTE: All PPE should be selected on the basis of an exposure assessment performed by a competent person.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: > 212° F

VAPOR PRESSURE: NDA

VAPOR DENSITY: (Air = 1): < 1

SOLUBILITY IN WATER: Complete

APPEARANCE: Clear liquid

SPECIFIC GRAVITY: (Water = 1): 1.034

VOLATILE BY VOLUME: NA

EVAPORATION RATE: (Ethyl Ether = 1): < 1

pH: 1.0

ODOR: odorless

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## **10. STABILITY AND REACTIVITY**

STABILITY: Stable at normal temperatures.

CONDITIONS TO AVOID: Excessive heat, shock, friction..

INCOMPATIBILITY (materials to avoid): Cyanides, water-reactive substances, strong reducing agents, combustible organic materials, most metals.

HAZARDOUS DECOMPOSITION PRODUCTS: Reaction with organics and strong reducing agents can produce organoselenides and hydrogen selenide. Thermal decomposition may produce selenium, nitrogen and copper oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

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## **11. TOXICOLOGICAL INFORMATION**

Product based toxicological information for this product:

LD<sub>50</sub>, oral, rat: 3129 mg/kg

Ingredient based toxicological information:

TARGET ORGANS: Eyes, skin, lungs (corrosive), liver, kidney, spleen, blood forming organs.

Medical conditions that may be aggravated by exposure: Pre-existing skin, eye, respiratory, liver, kidney disorders.

Carcinogenicity: IARC: 3            NTP: None            OSHA: None

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## **12. ECOLOGICAL INFORMATION**

ECOTOXICITY: NDA

ENVIRONMENTAL FATE: NDA

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## **13. DISPOSAL CONSIDERATIONS**

This product exhibits the characteristic of corrosivity (EPA Hazardous Waste Number D002 and D010). Review current local, state and federal laws, codes, statutes and regulations to determine current status and appropriate disposal method for the ingredients listed in Section 2. Any disposal practice must be in compliance with local, state, and federal laws and regulations. Contact the appropriate agency for specific information. Treatment, transport, storage and disposal of hazardous waste must be dealt with by a licensed facility or waste hauler.

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## **14. TRANSPORT INFORMATION**

### **D.O.T. HAZARDOUS MATERIALS DESCRIPTION AND PROPER SHIPPING NAME:**

Corrosive Liquid, Acidic, Inorganic, N.O.S. (Selenious and Nitric Acid), 8 / UN3264 / P.G. II

Marine Pollutant (Cupric Sulfate) Exceptions: 49CFR 173.154

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## 15. REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCES CONTROL ACT): the materials in this product are listed on the TSCA Inventory.

CERCLA (Comprehensive Response compensation and Liability Act, 40 CFR 117, 302: Reportable Quantity = 10 lb. (selenious acid, copper sulfate); 1000 lb. (nitric acid)

SARA TITLE III (Superfund Amendments and Authorization Act):

Section 311/312:

Immediate Health Effects: Yes

Delayed Health Effects: Yes

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactivity Hazard: No

Section 313 Reportable Ingredients: Selenious Acid, Nitric Acid, Cupric Sulfate

STATE "RIGHT-TO-KNOW": This product may contain components cited on certain state lists. Consult with your individual State regarding this product's components.

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## 16. OTHER INFORMATION

National Fire Protection Association (NFPA): Health: 3 Flammability: 0 Reactivity: 0

The data here is for hazard communication to our employees, our customers and their employees, and authorized regulatory agencies. For the intended purpose, this MSDS (Material Safety data Sheet) may be duplicated or the data transcribed to an alternative form.

**NOTE:** The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, Birchwood Casey LLC makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular period. Accordingly, Birchwood Casey LLC will not be responsible for damages of any kind resulting from the use of or reliance upon such information. **NO REPRESENTATIONS, OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HEREUNDER TO WHICH THE INFORMATION REFERS.** The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.

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### **FOR ASSISTANCE WITH PLACING ORDERS:**

- Product Pricing / Payment Terms
- Shipping and Tracing of Shipments
- Sales Rep Locations

Call our Sales Department (952) 388.6717

Or 1-800-746-6862 or Fax (952) 388-6718

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### **FOR PRODUCT USAGE ASSISTANCE**

- Questions on Operation of Products
- Solving Finishing Problems
- Operator Safety and Pollution Control

Call our Customer Service Desk Department (952) 388-6707

Or 1-800-746-6862 or Fax (952) 388-6708