

**MATERIAL SAFETY DATA SHEET  
FOR  
THORN SMITH LABORATORIES**

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Hydroxy Naphthol Blue  
Catalog# 85-1025

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**SECTION I – MATERIAL IDENTIFICATION AND INFORMATION**

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COMPONENTS – Chemical Name & Common Names  
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)

Hydroxy Naphthol Blue <1%

Formula:  $C_{20}H_{14}N_2O_{11}S_3Na_3$   
Formula Weight: 58.44  
CAS No.: 63451-35-4  
OSHA PEL: According to our sources, exposure threshold levels have not be established.

Sodium Chloride >99%

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**SECTION II – PHYSICAL/CHEMICAL CHARACTERISTICS**

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Boiling Point: N/A  
Specific Gravity (H<sub>2</sub>O=1): N/A  
Vapor Pressure (mm Hg and Temperature): N/A  
Melting Point: N/A  
Vapor Density (Air=1): N/A  
Evaporation Rate (\_\_\_=1): N/A  
Solubility in Water: Water Soluble  
Water Reactive: No  
Appearance and Odor: Red crystals. Odorless.

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### SECTION III – FIRE AND EXPLOSION HAZARD DATA

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Flash Point and Method Used: N/A  
Auto-Ignition Temperature: N/A  
Flammability Limits in Air (% by Volume): N/A  
LEL: N/A UEL: N/A  
Extinguisher Media: Use extinguishing media appropriate for surrounding fire.  
Special Fire Fighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in the positive pressure mode.  
Unusual Fire and Explosion Hazards: None identified.  
Toxic Gases Produces: None identified.

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### SECTION IV – REACTIVITY HAZARD DATA

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STABILITY:  Stable  Unstable  
Conditions to Avoid: None identified.  
Incompatibility (Materials to Avoid): None identified.  
Hazardous Decomposition Products: None identified.  
HAZARDOUS POLYMERIZATION:  May Occur  Will Not Occur

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### SECTION V – HEALTH HAZARD DATA

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PRIMARY ROUTES OF ENTRY:  
 Inhalation  Ingestion  Skin Contact  Eye Contact  
 Not Hazardous

#### CARCINOGENS LISTED IN:

NTP  OSHA  IARC Monograph  Not Listed

TOXICITY: Sodium Chloride: LD50 (oral-rat) 3000 mg/kg.

#### HEALTH HAZARDS - Acute:

Ingestion: Large doses may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Skin Contact: Contact may cause irritation.

Eye Contact: Contact may cause irritation.

HEALTH HAZARDS – Chronic: None identified.

Signs and Symptoms of Exposure: No information found.

Medical Conditions Generally Aggravated by Exposure: None identified.

EMERGENCY FIRST AID PROCEDURES – Seek medical assistance for further treatment, observation, and support if necessary.

Ingestion: If swallowed, and the person is conscious, immediately give large amounts of water or milk and induce vomiting. Get medical attention.

Skin Contact: Remove any contaminated clothing. Wipe off excess from skin. Immediately wash skin with soap and water for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye Contact: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

#### SARA TITLE III HAZARD CATEGORIES AND LISTS

Acute: Yes                      Chronic: No                      Flammability: No                      Pressure: No  
Reactivity: No  
Extremely Hazardous Substance: No  
CERCLA Hazardous Substance: No  
SARA 313 Toxic Chemicals: No  
TSCA Inventory: No

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#### SECTION VI – CONTROL AND PROTECTIVE MEASURES

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Respiratory Protection (Specify Type): None required where adequate ventilation conditions exist. If airborne concentration is high, use an appropriate respirator or dust mask.

Protective Gloves: Wear rubber gloves.

Eye Protection: Wear chemical safety goggles.

Ventilation to be used: Use adequate general or local exhaust ventilation to keep fume or dust levels as low as possible.

Local Exhaust                       Mechanical (General)                       Special  
 Other

Other protective clothing and equipment: Wear clean body-covering clothing.

Hygienic Work Practices: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

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#### SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE/LEAK PROCEDURES

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Steps to be taken if material is spilled or released: Wear suitable protective clothing. Wash up with water.

Waste Disposal Methods: Dispose to drain.

Precautions to be taken in handling and storage: Keep in tightly closed container. Suitable for any general chemical storage area. Store in accordance with all applicable local, state and federal environmental regulations.

Other precautions and/or special hazards: No information available.

NFPA Rating: Health: **1** Flammability: **1** Reactivity: **0**  
HMIS Rating: No information found.

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## SECTION VIII – TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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### Domestic (D.O.T.)

Proper Shipping Name:           Chemicals, n.o.s. (Non-regulated)

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and assume no liability resulting from its use. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.