

# Material Safety Data Sheet

## MANUFACTURER INFORMATION

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## PRODUCT IDENTIFICATION

Substance: **BALDWIN'S PATINA**

## COMPONENTS AND CONTAMINANTS

<u>Compound</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>DOT #</u>
Aqueous Ammonia	2.8	1336-21-6	50 ppm, TWA <sup>1</sup>	25 ppm, TWA 35 ppm, STEL <sup>2</sup>	2672
Copper salts	5% by weight	7447-39-4	N/E <sup>3</sup>	N/E	2802

Other non-hazardous proprietary ingredients – remainder of solution

The toxicity and physical properties of this product have not been tested as a whole. Health and safety information and other data listed on this material safety data sheet are based primarily on that of its principal hazardous ingredient, ammonia (aqueous).

## PHYSICAL DATA

DESCRIPTION: Blue liquid with an ammonia odor; provided in 1 ounce, 4 ounce, or 1 gallon containers.

BOILING POINT: Similar to water

SPECIFIC GRAVITY: Similar to water

MELTING POINT: Not Established

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- 1 Ammonia; 8-hour Time Weighted Average
  - 2 Ammonia; 15-minute Short Term Exposure Limit
  - 3 Not Established

## **PHYSICAL DATA Con't**

SOLUBILITY IN WATER: Not Established

SOLUBILITY IN OTHER LIQUIDS: Not Established

ODOR THRESHOLD: None Established

## **REACTIVITY DATA**

STABILITY: Stable

INCOMPATIBLES: Strong acids, strong oxidizing agents

DECOMPOSITION PRODUCTS: Ammonia, Oxides of Nitrogen, Hydrochloric Acid

HAZARDOUS POLYMERIZATION: Will not occur

## **FIRE & EXPLOSION HAZARD DATA**

FLAMMABLE LIMITS: Not flammable

FLASH POINT: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

FIREFIGHTING: Use standard precautions

## **TOXICITY/HEALTH EFFECTS**

ACUTE EXPOSURE:

**INHALATION:** Ammonia is irritating to the eyes, nose, mucous membranes, and respiratory tract. High concentrations of ammonia may cause severe irritation of the respiratory system with possible pulmonary edema.

**EYE CONTACT:** Direct contact with the eye may result in severe irritation. Prolonged contact may cause permanent corneal damage and blindness.

**SKIN CONTACT:** Prolonged skin contact may cause irritation, with inflammation, swelling, and edema. Skin disorders may be aggravated by exposure.

**INGESTION:** Harmful if ingested with possible burns to the mouth, throat, and stomach. May cause nausea, vomiting and diarrhea.

CHRONIC EXPOSURE: Chronic exposure effects have not been determined.

## **EMERGENCY & FIRST AID PROCEDURES**

**INHALATION:** If inhaled, remove the victim to fresh air. If not breathing, give artificial respiration.

- SKIN CONTACT:** Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- INGESTION:** If swallowed, do not induce vomiting. If conscious, give large amounts of water. Follow with diluted vinegar, fruit juice, or whites of eggs beaten with water.
- EYE CONTACT:** Flush with water for 15 minutes while holding eyelids open. DO NOT rub eyes. See a Physician.

### **SPILLS AND LEAKS**

Neutralize spill with water. Absorb with inert material such as dry sand or earth. Dispose in accordance with applicable federal, state, and local regulations.

### **PROTECTIVE EQUIPMENT**

- VENTILATION:** Use with sufficient general or local exhaust ventilation to maintain air concentrations of ammonia below the ACGIH TLV.
- RESPIRATORS:** Respiratory protection is required if airborne concentrations of ammonia exceed the TLV. At concentrations up to 300 ppm, a chemical cartridge is recommended. Above this level, a self-contained breathing apparatus is advised.
- SKIN/EYE PROTECTION:** Safety goggles, face shield, apron, and rubber gloves are recommended. An eyewash and safety shower should be nearby and ready for use.

### **STORAGE/DISPOSAL & TRANSPORTATION**

- STORAGE:** Store in a dry, well-ventilated space. Keep containers tightly closed when not in use.
- DISPOSAL:** Dispose in accordance with all applicable, federal, state, and local environmental regulations.
- TRANSPORTATION:** DOT placard – None Required