

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 594.00

Revision Date: December 31, 2013

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Phenylhydrazine Hydrochloride

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word **DANGER**

Pictograms



SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral, inhalation, and dermal (Category 3). Toxic if swallowed, inhaled or in contact with skin (H301+H311+H331). Do not eat, drink or smoke when using this product (P270). Avoid breathing dust or fumes (P261).

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2A). Causes skin and serious eye irritation (H315+H319).

Hazard class: Sensitization, skin (Category 1). May cause an allergic skin reaction (H317). Avoid breathing dust or fumes (P261).

Hazard class: Germ cell mutagenicity (Category 2). Suspected of causing genetic defects (H341). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Carcinogenicity (Category 1). May cause cancer (H350).

Hazard class: Specific target organ toxicity, repeated exposure (Category 1). Causes damage to organs (H372).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Phenylhydrazine hydrochloride	59-88-1	$C_6H_5NHNH_2 \cdot HCl$	144.61	

SECTION 4 — FIRST AID MEASURES

If exposed or concerned: Get medical advice or attention (P308+P313).

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

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

If on skin: Wash with plenty of water (P302+P352). Remove immediately all contaminated clothing (P361). Wash contaminated clothing before reuse (P363).

If swallowed: Rinse mouth. Immediately call a POISON CENTER or physician (P301+P310+P330).

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid.

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE

None

established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #2. Store with alcohols, glycols, amines and amides.
Store in a cool dry place. Keep container tightly closed (P233). Use only in a hood or in a well ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash thoroughly after handling (P264). Use only in a hood or in a well ventilated area (P271). Contaminated work clothing should not be allowed out of the workplace (P272).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White to yellow-brown crystals. Strong chlorine odor.	Melting point: 243-246 °C
Soluble: Common organic solvents and dilute acids. Slightly in water.	Specific gravity: 1.0978

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers or bases.
Shelf life: Good, color darkens on exposure to air.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic if inhaled or ingested, skin and eye irritant, sensitizer, mutagen, carcinogen.	ORL-MUS LD ₅₀ : 2100 mg/kg
Chronic effects: Mutagen, carcinogen, repeated exposure organ damage.	IHL-RAT LC ₅₀ : N.A.
Target organs: Blood	SKN-RBT LDL ₀ : 500 mg/kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.
Flinn Suggested Disposal Method #16 is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (200-444-7).

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.