SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Thionin

Flinn Scientific, Inc.  P.O. Box 219, Batavia, IL  60510  (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315+H320).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component Name</th>
<th>CAS Number</th>
<th>Formula</th>
<th>Weight Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thionin</td>
<td>581-64-6</td>
<td>C_{12}H_{10}ClN_{3}S</td>
<td>263.74</td>
</tr>
</tbody>
</table>

Synonyms: Thionine; 3,7-Diaminophenothiazin-5-iium chloride; Lauth's violet; C.I. 52000

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.
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 so. Continue rinsing (P305+P351+P338). If eye irritation persists: Get medical advice or attention (P337+P313).
If on skin: Wash with plenty of water (P302+P352). If skin irritation occurs: Get medical advice or attention (P332+P313).
If swallowed: Rinse mouth. Call a POISON CENTER or physician if you feel unwell.

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

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Do not allow solid to become airborne. Ventilate area. Wipe up, place in sealed bag or container and dispose. Wash spill site after material pickup is complete. See Sections 8 and 13 for further information.
SECTION 7 — HANDLING AND STORAGE

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION
Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Will stain skin, clothing, and surfaces.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES
Blackish-green, glistening needles. Slight vinegar odor. Soluble: Hot water
Absorbance maximum: 602.5nm Biological stain: Nuclear stain for chromatin and other applications.

SECTION 10 — STABILITY AND REACTIVITY
Avoid contact with strong oxidizers. Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION
Acute effects: Skin and eye irritant. Chronic effects: N.A. Target organs: Skin and eyes.

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 #26a 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
Not listed.

SECTION 16 — OTHER INFORMATION
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Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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