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**Section 1. Chemical Product and Company Identification**

Product Number: 5230 Series

Product Name: Mercury Indicator Powder

**Manufacturer:**NPS Corporation  
3303 Spirit Way  
Green Bay, WI 54304**Emergency Telephone Numbers:**CHEMTREC--Domestic (800)424-9300 24 hours  
--International (202)483-7616 24 hours  
Information (800) 558-5066 7:30am-4:30pm CDT M-F

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**Section 2. Composition/Information on Ingredients**

| <u>CAS Registry #</u> | <u>Component</u>       |
|-----------------------|------------------------|
| 7704-34-9             | Sulfur                 |
| 112926-00-8           | Silicon Dioxide        |
| -- NA --              | Proprietary Ingredient |

(NOTE: See Section 8 of this MSDS for Exposure Guidelines)

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**Section 3. Hazards Identification****Emergency Overview**

Odorless, yellowish-tan to gray powder. Dust may form a flammable or explosive mixture in air. When heated to decomposition, toxic fumes of sulfur oxides are produced.

**Potential Health Effects**

Eye: May cause irritation.

Skin: May cause irritation.

Inhalation: May cause irritation to the upper respiratory system.

Signs and Symptoms:

- Eyes: Redness, Tearing
  - Skin: Redness
  - Inhalation: Discomfort of the nose and throat, Dry cough.
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**Section 4. First Aid Measures**

Eyes: Immediately flush with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Remove contaminated clothing. Brush off excess powder with a dry towel. Wash affected area with plenty of soap and water for several minutes. If skin irritation develops or persists, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: If swallowed, call a physician or poison control center immediately.

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Flash Point: 370 °F

Flammable Limits: Not Tested

Auto-ignition Temperature: NA

Extinguishing Media: Use water spray, alcohol foam, dry chemical, or carbon dioxide.

Special Fire Fighting Procedures: For large fires or fires in confined areas, full emergency equipment with self-contained breathing apparatus and full protective clothing should be used. When heated to decomposition toxic fumes of sulfur oxides are formed. Dust may form a flammable or explosive mixture in air.

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### **Section 6. Accidental Release Measures**

Avoid breathing or generating airborne dust. Avoid contact with skin and eyes. If unused material is spilled, collect by sweeping, shoveling or vacuuming and recycle the material for use. If this product is mixed with other materials, see Section 13.

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### **Section 7. Handling and Storage**

Store in a cool, dry, and well ventilated area. Keep container tightly closed. Avoid contact with materials listed in Section 10. Keep away from flammable materials and sources of heat or flame.

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### **Section 8. Exposure Controls/Personal Protection**

Exposure Limits: Silicon Dioxide:  
OSHA PEL is 20 Mppcf.  
ACGIH TLV is 10 mg/M<sup>3</sup>.  
Proprietary Ingredient:  
OSHA PEL is 1.0 mg/ M<sup>3</sup>.  
ACGIH TLV is 1.0 mg/ M<sup>3</sup>.  
Sulfur:  
OSHA PEL: Not Established  
ACGIH TLV: Not Established

The end-user must determine the specific types of personal protective equipment needed according to 29 CFR 1910.132—Personal Protective Equipment (PPE) for General Industry. The following are only suggestions:

- Eyes: Safety glasses or goggles
- Skin: Suitable chemically resistant gloves and protective clothing
- Inhalation: Air purifying respirator with appropriate chemical cartridge or canister

Adequate ventilation should be provided to limit the threat of inhalation.

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### **Section 9. Physical and Chemical Properties**

Appearance: Yellowish-tan to gray powder

Odor: Odorless

% Vaporizable by volume (H<sub>2</sub>O=100): NA

Boiling Point: 833 °F

Vapor Pressure (mmHg): Not Tested

Vapor Density: 8.8

Solubility in Water: Negligible (<0.1%)

Specific Gravity (H<sub>2</sub>O=1): 2.00

Melting Point: 240 °F

pH: 5.9

Evaporation Rate (Butyl Acetate=1): NA

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Stable: Yes

Conditions to Avoid: Heating to decomposition.

Incompatibility (Materials to Avoid): Strong oxidizers, most common metals, hydrogen, chlorine, fluorine, and organic materials at elevated temperatures.

Hazardous Decomposition or Byproducts: Thermal decomposition produces toxic fumes of sulfur oxides.

Hazardous Polymerization: Will not occur

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**Section 11. Toxicological Information**

This product is not listed by NTP or IARC. See Section 15.

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**Section 12. Ecological Information**

No data available. See Section 15.

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**Section 13. Disposal Considerations**

This product in itself is considered to be non-hazardous as defined by RCRA (40 CFR 261). Once used, this product may take on the characteristics of the chemical(s) it was used with and should be disposed of accordingly. Disposal of this product (used or unused) must be in compliance with all local, state, and federal regulations.

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**Section 14. Transport Information**

This product is not a DOT Hazardous Material and is not regulated for all shipping purposes.

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**Section 15. Regulatory Information**

TSCA Inventory Status: All components are listed on the TSCA list.

SARA Title III

Section 302 Extreme Hazardous Substance List: Not listed

Section 311/312 Hazard Classification:

Immediate (acute): Yes

Delayed (chronic): Yes

Fire: No

Sudden Release of Pressure: No

Reactive: No

Section 313 Toxic Chemicals: Listed—Copper—1%

USEPA CERCLA—Reportable Quantity (RQ): Listed—Copper—5000 lbs

RCRA Hazardous Waste: Not listed

State/Int'l Right-to-Know Regulations: Canada's WHMIS—Copper 1%

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**Section 16. Other Information**

Abbreviations:

CFR: Code of Federal Regulations

OSHA: Occupational Safety and Health Administration

MSDS: Material Safety Data Sheet

PEL: Permissible Exposure Limit

NA: Not Applicable

Mppcf: Millions of particles per cubic foot

ACGIH: American Conference of Governmental Industrial Hygienists

TLV: Threshold Limit Value

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer  
RCRA: Resource Conservation and Recovery Act  
TSCA: Toxic Substances Control Act  
SARA: Superfund Amendments and Reauthorization Act  
USEPA: United States Environmental Protection Agency  
CERCLA: Comprehensive Response, Compensation, and Liability Act  
DOT: Department of Transportation  
WHMIS: Workplace Hazardous Materials Information System  
NFPA: National Fire Protection Association  
HMIS: Hazardous Material Information System

**NFPA Ratings:**

Health: 2  
Fire: 1  
Reactivity: 0  
Special Hazard: None

**HMIS Ratings:**

Health: 2  
Flammability: 1  
Reactivity: 0  
Personal Protection: X

**NOTE:** This MSDS has been prepared only for the Mercury Indicator Powder (5230 Series) of SPILFYTER® Products. The MSDS's of the chemicals used with this product must be reviewed completely, and precautions taken as described.

The information accumulated herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge. However, NPS Corporation cannot give guarantees regarding the information from sources, and expressly does not make any warranties, nor assumes any liability for its uses of this product.

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**MATERIAL SAFETY DATA SHEET**

**Spilfyter® Products**

**Mercury Indicator Powder**

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**Revision Date: 02/24/2011**

**MSDS No. 1014**

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