

# MATERIAL SAFETY DATA SHEET

SPILFYTER® Products  
Mercury Sorbent Powder

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Revision Date: 07/07/00  
MSDS No. 64

## Section 1. Chemical Product and Company Identification

18999948

Product Number: 5200 Series  
Product Name: Mercury Sorbent Powder

**Manufacturer:**  
J.V. Manufacturing Co., Inc.  
963 Ashwaubenon Street  
Green Bay, WI 54304

**Emergency Telephone Numbers:**  
CHEMTREC--Domestic (800)424-9300 24 hours  
--International (202)483-7616 24 hours  
Information (800)334-9092 7am-5pm CDT M-F

## Section 2. Composition/Information on Ingredients

CAS Registry #	Component
7440-66-6	Zinc Dust
77-92-9	Citric Acid

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

## Section 3. Hazards Identification

\*\*\*\*\* Emergency Overview \*\*\*\*\*  
\*Odorless, very fine, blue, gray, or white powder. Zinc dust reacts with water \*  
\*evolving hydrogen. The heat of the reaction may ignite the hydrogen. \*  
\*\*\*\*\*

### Potential Health Effects

Eye: May cause irritation.  
Skin: May cause irritation. Repeated skin contact may aggravate an existing dermatitis (skin condition) and/or sensitivity of the skin.  
Inhalation: Exposure to dust levels exceeding the PEL (see Section 8) may irritate the nose, throat, and upper respiratory system.  
Signs and Symptoms:  
• Eyes: Redness, Tearing, Possible burns  
• Skin: Redness, Swelling, Possible burns  
• Inhalation: Discomfort of the nose and throat, headache, fever, chills, muscle aches, nausea, and tiredness. These symptoms may persist for 6 to 24 hours.

## 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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## Section 5. Fire Fighting Measures

Flash Point: Not Tested  
Flammable Limits: Lower Explosive Limit (LEL): 13.6 g/ft<sup>3</sup> Upper Explosive Limit: NA  
Auto-ignition Temperature: NA  
Extinguishing Media: Rock dust or dry sand  
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. Dry zinc dust will not ignite spontaneously, but once ignited, it may burn readily in air. Thermal decomposition of this product may produce carbon monoxide and carbon dioxide.

## 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.

## 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.

## Section 8. Exposure Controls/Personal Protection

Exposure Limits: None specifically established for this product; treat as a nuisance dust as defined in 29 CFR 1910.1000.

OSHA PEL: Total Zinc Dust is 15 mg/M<sup>3</sup>.  
Respirable Fraction, Zinc Dust, is 5mg/M<sup>3</sup>.

ACGIH TLV is 10mg/M<sup>3</sup>.

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.

## Section 9. Physical and Chemical Properties

Appearance: Very fine blue, gray, or white powder  
Odor: Odorless  
Boiling Point: 1666 °F  
Vapor Pressure (mmHg): NA  
Vapor Density: NA  
Solubility in Water: Reacts with water  
Specific Gravity (H<sub>2</sub>O=1): 7.11  
Melting Point: 787 °F  
pH: 1.18—1% aqueous solution

Evaporation Rate (Butyl Acetate=1): NA  
% Vaporizable by volume (H<sub>2</sub>O=100): NA

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## Abbreviations (cont.):

MSDS: Material Safety Data Sheet  
 PEL: Permissible Exposure Limit  
 NA: Not Applicable  
 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  
 n.o.s.: Not Otherwise Specified  
 NFPA: National Fire Protection Association  
 HMIS: Hazardous Material Information System

## NFPA Ratings:

Health: 0  
 Fire: 1  
 Reactivity: 1  
 Special Hazard: Avoid Water

## HMIS Ratings:

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

**NOTE:** This MSDS has been prepared only for the Mercury Sorbent Powder (5200 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, J.V. Manufacturing Co., Inc. 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.

**Disclaimer**

You have purchased SPILFYTER® products from J.V. Manufacturing Co., Inc.  
 You have been provided data, product labels, MSDS's, and other information about SPILFYTER® Products.

Some SPILFYTER® Products are hazardous. Information about SPILFYTER® Products that are hazardous is furnished without guarantee. J.V. Manufacturing Co., Inc. does not guarantee the accuracy of the information about hazardous SPILFYTER® Products.

Those products are only to be used by people having expertise in using the hazardous products.

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MSDS No. 64**Section 10. Stability and Reactivity**

Stable: Yes  
 Conditions to Avoid: Contact with water or damp air due to the evolution of hydrogen.  
 Incompatibility (Materials to Avoid): Liquid acids and bases, cyanides, sulfides, and hypochlorites.  
 Hazardous Decomposition or Byproducts: Thermal decomposition of this material may produce carbon monoxide and carbon dioxide.  
 Hazardous Polymerization: Will not occur

**Section 11. Toxicological Information**

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

**Section 12. Ecological Information**

No data available. See Section 15.

**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.

**Section 14. Transport Information**

DOT:  
 Proper Shipping Name: Corrosive solids, n.o.s. (contains Citric Acid)  
 Hazard Class: 8  
 Packing Group: III  
 Identification Number: 1759

**Section 15. Regulatory Information**

The zinc dust in this product is considered to be non-hazardous by the Office of Hazardous Materials Management (49 CFR Sections 172.101 and 173.124).

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—Zinc Powder or Dust—1%

USEPA CERCLA—Reportable Quantity (RQ): Not listed

RCRA Hazardous Waste: Not listed

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

**Section 16. Other Information**

Abbreviations:  
 CFR: Code of Federal Regulations

The information provided about the hazardous products is believed to be correct. You must perform your investigation as to the safety, toxicity, suitability, and proper shipping method for any hazardous SPILFYTER® Product.

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If you resell SPILFYTER® Products, you must, by law, furnish your customers a copy of MSDS's and handling instructions.

You are also required by law to insure that all SPILFYTER® Products are properly shipped.

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