



# Safety Data Sheet

Issue Date: 07-Apr-2022

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Version 1

## 1. IDENTIFICATION

### Product identifier

**Product Name** PIG Mercury Absorbent Powder

### Other means of identification

**SDS #** MSD-198

### Recommended use of the chemical and restrictions on use

**Recommended Use** PIG Mercury Absorbent Powder is designed to contain and absorb visible mercury while suppressing the hazardous vapors. Powder helps to get into the hard-to-reach places such as cracks and crevices where mercury can hide.

### Details of the supplier of the safety data sheet

#### **Supplier Address**

New Pig Corporations  
One Pork Avenue  
Tipton, PA 16684-0304  
Information: 1-800-468-4647  
Email: hothogs@newpig.com  
Website: www.newpig.com

### Emergency telephone number

**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Gray powder

**Physical state** Solid

**Odor** Bland

### Classification

Acute toxicity - Oral	Category 4
Self-heating substances and mixtures	Category 1
Substances or mixtures which, in contact with water, emit flammable gases	Category 1
Combustible dust	

### Signal Word

**Danger**

### Hazard statements

Harmful if swallowed  
Self-heating; may catch fire  
In contact with water releases flammable gases which may ignite spontaneously  
May form combustible dust concentrations in air



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Keep cool. Protect from sunlight  
Wear protective gloves/protective clothing/eye protection/face protection  
Handle under inert gas. Protect from moisture  
Keep away from any possible contact with water, because of violent reaction and possible flash fire

**Precautionary Statements - Response**

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Maintain air gap between stacks/pallets  
Store away from other materials  
Store bulk masses greater than .?1 kg/ .?2 lbs at temperatures not exceeding .?3 °C/ .?4 °F  
Store in a dry place. Store in a closed container

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Zinc	7440-66-6	96
Citric Acid	77-92-9	4

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

**4. FIRST AID MEASURES****Description of first aid measures**

<b>Eye Contact</b>	Flush with water for 15 minutes. If irritation persists, call physician.
<b>Skin Contact</b>	Wash with soap and water. If irritation persists, contact a physician.
<b>Inhalation</b>	Not normally applicable. Move to fresh air. If symptoms persist, seek medical attention.
<b>Ingestion</b>	Not normally required. Contact a physician if ingested.

**Most important symptoms and effects, both acute and delayed**

<b>Symptoms</b>	Harmful if swallowed.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Unused form: Smother with suitable dry powder. Do NOT use water. Do not allow water runoff to enter sewers or waterways. Used form: Refer to absorbed liquid(s) SDS(s).

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Closed containers exposed to heat may rupture due to pressure buildup. Dust can form an explosive mixture with air.

**Hazardous combustion products** Irritating or toxic fumes in a fire.

### Explosion Data

**Sensitivity to Static Discharge** AVOID GENERATING DUST. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required.

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for Clean-Up** Carefully sweep, scoop or vacuum and place in suitable container. Avoid generating dust or accumulating dust. Avoid dust dispersal in the air (i.e. cleaning dust surfaces with compressed air). Spilled material can be a slipping hazard. Eliminate flames, sparks, excessive temperatures and oxidizing agents. Non-sparking tools should be used.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Avoid generation of dust. Avoid breathing dusts. Avoid contact with skin and eyes. Minimize dust generation and accumulation. Ensure that dust does not accumulate on surfaces. Keep away from water. Minimize inhalation of vapors. Keep closed when not in use. Do not handle or store near strong oxidants.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in closed, properly labeled containers in a cool, ventilated area. Do not transfer contents to bottles or other unlabeled containers. Keep away from heat, open flames and oxidizing agents. Shelf Life: Indefinitely - as long as product is kept in a sealed, clean, dry place away from direct sunlight and/or excessive heat.

**Packaging Materials** The container can be hazardous when empty. Follow label cautions even after the

**Incompatible Materials**

container is empty. Do not reuse empty containers for food, clothing or products for human or animal consumption, or where skin contact can occur.

Zinc powder can react violently with water, sulfur and halogens. Potentially dangerous with strong oxidizing agents, lower molecular weight chlorinated hydrocarbons, strong acids and alkalis. Oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Citric Acid 77-92-9	-	15 mg / m3 (Total)	-

**Appropriate engineering controls****Engineering Controls**

Explosion-proof general and local exhaust ventilation. Use explosion proof electrical equipment for very high dust levels. Ensure ventilation and dust-handling systems prevent the escape of dust into work areas and there is no leakage from equipment.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Safety glasses with side shields is a good industrial practice.

**Skin and Body Protection**

Impervious gloves.

**Respiratory Protection**

Nuisance dust mask 3M type 8710 or equivalent. (Recommended).

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

Physical state	Solid	Odor	Bland
Appearance	Gray powder	Odor Threshold	Not determined
Color	Gray		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not determined	
Melting point / freezing point	Not determined	
Boiling point / boiling range	>100 °C / >212 °F	
Flash point	Not determined	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not determined	
Lower flammability or explosive limits	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	7.05	(Water=1)
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Dust can form an explosive mixture with air	

**Oxidizing Properties** Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical stability

This is a stable material. Damp zinc dust or powder may heat spontaneously and ignite on exposure to air.

### Possibility of hazardous reactions

None under normal processing.

**Hazardous Polymerization** Will not occur.

### Conditions to Avoid

Heat, strong oxidants.

### Incompatible materials

Zinc powder can react violently with water, sulfur and halogens. Potentially dangerous with strong oxidizing agents, lower molecular weight chlorinated hydrocarbons, strong acids and alkalis. Oxidizing agents.

### Hazardous decomposition products

Irritating and toxic fumes and gases, toxic fumes of zinc oxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact** Avoid contact with eyes.

**Skin Contact** Avoid contact with skin.

**Inhalation** Do not inhale.

**Ingestion** Harmful if swallowed.

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc 7440-66-6	> 8,437 mg/kg (rat)	-	-
Citric Acid 77-92-9	= 3 g/kg ( Rat )	> 2000 mg/kg ( Rat )	-

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity** Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**Oral LD50** 650.60 mg/kg

**Dermal LD50** 50,050.00 mg/kg**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Component Information**

Chemical name	Algae/aquatic plants	Fish	Crustacea
Zinc 7440-66-6	0.09 - 0.125: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.11 - 0.271: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	0.211 - 0.269: 96 h Pimephales promelas mg/L LC50 semi-static 2.16 - 3.05: 96 h Pimephales promelas mg/L LC50 flow-through 0.24: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.41: 96 h Oncorhynchus mykiss mg/L LC50 static 0.45: 96 h Cyprinus carpio mg/L LC50 semi-static 0.59: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 2.66: 96 h Pimephales promelas mg/L LC50 static 3.5: 96 h Lepomis macrochirus mg/L LC50 static 30: 96 h Cyprinus carpio mg/L LC50 7.8: 96 h Cyprinus carpio mg/L LC50 static	0.139 - 0.908: 48 h Daphnia magna mg/L EC50 Static
Citric Acid 77-92-9		1516: 96 h Lepomis macrochirus mg/L LC50	

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Chemical name	Partition coefficient
Citric Acid 77-92-9	-1.72

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical name	California Hazardous Waste Status
Zinc 7440-66-6	Ignitable powder

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG**  
**Marine Pollutant** This material may meet the definition of a marine pollutant

**15. REGULATORY INFORMATION****International Inventories**

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Zinc	X	ACTIVE	X	X	X	X	X	X	X
Citric Acid	X	ACTIVE	X	X	X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations****CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Zinc 7440-66-6	1000 lb		RQ 454 kg final RQ RQ 1000 lb final RQ

**SARA 313**

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Zinc - 7440-66-6	7440-66-6	96	1.0

**CWA (Clean Water Act)**

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Zinc		X	X	

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Zinc 7440-66-6	X	X	X

**16. OTHER INFORMATION****Additional Product Information**

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

**NFPA****Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical hazards**

Not determined

**Personal Protection**

Not determined

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**Revision Note:** New format

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**