

Safety Data Sheet IHP Ball Mill Powder

SECTION 1: Identification

1.1 Product identifier

Product name IHP Ball Mill Powder

1.2 Other means of identification

Fine, black powder. At least 80% of material is comprised of < 200 mesh (74 micron) sized particles. Material stored in bulk and may be distributed in drums, buckets, bags and sacks.

1.3 Recommended use of the chemical and restrictions on use

Used for making agglomerates used in the kiln production of phosphoric acid. When handling or using this product in a manner which generates dust, proper ventilation and personal protective equipment should be utilized.

1.4 Supplier's details

Name	JDCDevelopment, LLC
Address	3200 CR 630 West Fort Meade, FL 33841 USA
Telephone	863-285-8607
Fax	863-285-8504
email	mvignovic@jdcphosphate.com

1.5 Emergency phone number(s)

800-424-9300
CCN698080
Outside USA & Canada 703-527-3887

SECTION 2: Hazard identification

General hazard statement

Harmful by inhalation (contains crystalline silica)

2.1 Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Eye damage/irritation (chapter 3.3), Cat. 2
- Sensitization, respiratory (chapter 3.4), Cat. 1

2.2 GHS label elements, including precautionary statements

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Pictogram



Signal word

Warning

Hazard statement(s)

H305
H319
H332
H334

May be harmful if swallowed and enters airways
Causes serious eye irritation
Harmful if inhaled
May cause allergy or asthma symptoms or breathing difficulties if inhaled

Precautionary statement(s)

P261
P264
P280
P284
P304+P340
P305+P351+P338

P337+P313
P342+P311

Avoid breathing dust.
Wash hands thoroughly with soap and water after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
In case of inadequate ventilation: Wear respiratory protection.
IF INHALED: Remove person to fresh air and keep 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 eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Seek medical attention

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

1. Silica Oxide

Concentration 47 % (Weight)
CAS no. 14808-60-7

2. Phosphate

Concentration 33 % (Weight)
CAS no. 98059-61-1

3. Calcium carbonate

Concentration 10 % (Weight)
CAS no. 1317-65-3

4. Carbon

Concentration 7 % (Weight)
CAS no. 7440-44-0

5. Magnesium Oxide

Concentration 1 % (Weight)
CAS no. 1309-48-4

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6. Aluminum Oxide

Concentration 1 % (Weight)
CAS no. 1344-28-1

7. Iron Oxide

Concentration 1 % (Weight)
CAS no. 1309-37-1

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Contains minor quantities of crystalline silica in the form of quartz. Prolonged or repeated overexposures to aggregate dust may cause irritation and progressive and permanent lung disorders, including silicosis. Quartz is classified as a suspected human carcinogen by the American Conference of Government Industrial Hygienists. The International Agency for Research on Cancer has classified crystalline silica in the form of quartz as a Group 1 confirmed human carcinogen.
If inhaled	Allow person to rest in a well-ventilated area. If person is not breathing, perform artificial respiration if properly trained. If irritation persists, seek medical attention.
In case of skin contact	Wash with soap and water. If dryness occurs, use a moisturizing lotion.
In case of eye contact	Promptly flush with clean, tepid water for 15 minutes to remove dust or grit. Contact physician if eye pain or irritation persists.
If swallowed	Product will pass through the digestive tract unchanged and with no effect. No specific treatment is required.
Personal protective equipment for first-aid responders	Avoid actions that cause dust to become airborne during response

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Non-flammable. Use extinguishing media appropriate for the surrounding fire.

5.2 Specific hazards arising from the chemical

None known.

5.3 Special protective actions for fire-fighters

None, other than those suitable for the surrounding fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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Avoid actions that cause dust to become airborne. Avoid inhalation of dust. Wear appropriate protective equipment as described in Section 8.

6.2 Environmental precautions

Do not wash material down sewage and drainage systems or into bodies of water (e.g. streams).

6.3 Methods and materials for containment and cleaning up

Use appropriate tools or equipment to place the spilled solid in a suitable location for reuse or container for proper disposal. Use dustless methods (vacuum) or wet material to prevent dusting prior to handling or scooping up material into containers. Do not dry sweep if dust is present.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Minimize air-borne dust generation and accumulation. Keep away from food, animal feed and drinking water. May reduce traction or result in friction loss and cause slipping hazard on hard, wet surfaces.

7.2 Conditions for safe storage, including any incompatibilities

Stack bagged material in a secure manner to prevent falling. Bagged material is heavy and poses risks such as sprains and strains to the back, arms, shoulders and legs during lifting and mixing. Handle with care and use appropriate control measures.

Engulfment hazard. To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck, or other storage container or vessel that stores or contains material. Dust can buildup or adhere to the walls of a confined space. The dust can release, collapse or fall unexpectedly.

Use engineering controls (e.g. wetting stockpiles) to prevent windblown dust from stockpiles, which may cause the hazards described in Section 3.

SECTION 8: Exposure controls/personal protection

8.2 Appropriate engineering controls

Use local exhaust or general dilution ventilation or other suppression methods to maintain dust levels below exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear ANSI approved glasses or safety goggles when handling dust to prevent contact to eyes. Wearing contact lenses when using product under dusty conditions is not recommended.

Skin protection

Wear gloves when handling material. Remove clothing and protective equipment that becomes dusty and launder before reusing.

Body protection

Wear ANSI approved hard hat, long-sleeved shirt and long pants, cloth gloves, closed toe shoes with hard soles and socks.

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Respiratory protection

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Wear a NIOSH approved respirator that is properly fitted and is in good condition when exposed to dust above exposure limits.

When handling in enclosed areas where dust exposure limits may be exceeded, a filtering face piece dust mask or dust filtering respirator must be utilized. Check with respirator manufacturer to determine the appropriate type of equipment for a given application.

Environmental exposure controls

When handling or using this product in a manner which generates dust, use process enclosures, efficient local exhaust ventilation, wetting and/or other process/engineering controls to maintain airborne concentrations below the exposure limits.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Fine, black powder. At least 80% of material is comprised of < 200 mesh (74 micron) sized particles.
Odor	None
Odor threshold	N/A
pH	N/A
Melting point/freezing point	None, solid
Initial boiling point and boiling range	None, solid
Flash point	N/A
Evaporation rate	N/A
Flammability (solid, gas)	Non-flammable
Upper/lower flammability limits	N/A
Upper/lower explosive limits	N/A
Vapor pressure	N/A
Vapor density	N/A
Relative density	100 lb/ft ³
Solubility	Insoluble in water
Partition coefficient: n-octanol/water	N/A
Auto-ignition temperature	N/A
Decomposition temperature	N/A
Viscosity	N/A
Explosive properties	Non-explosive
Oxidizing properties	N/A

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

N/A

10.4 Conditions to avoid

Minimize air-borne dust generation and accumulation.

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10.5 Incompatible materials

None known

10.6 Hazardous decomposition products

N/A

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

A single, short-term exposure presents little or no acute toxicity hazard.

Skin corrosion/irritation

May cause dry skin, abrasions, discomfort, and irritation. Remove clothing that becomes dusty and launder before reusing.

Serious eye damage/irritation

Eye contact to airborne dust may cause immediate or delayed irritation or inflammation. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Respiratory or skin sensitization

Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure. Risk of injury depends on duration and level of exposure.

Germ cell mutagenicity

No known significant effects or critical hazards.

Carcinogenicity

Crystalline silica is classified by IARC and NTP as a known human carcinogen.

Reproductive toxicity

No known significant effects or critical hazards.

Summary of evaluation of the CMR properties

Crystalline silica is classified by IARC and NTP as a known human carcinogen.

STOT-single exposure

Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.

STOT-repeated exposure

This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a seriously disabling and fatal lung disease. Silicosis increases the risk of tuberculosis.

Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys.

Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

Aspiration hazard

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Breathing dust may cause nose, throat or lung irritation, including choking, depending on the degree of exposure.

Additional information

Individuals with lung disease (e.g. bronchitis, emphysema, COPD, pulmonary disease) can be aggravated by exposure to airborne dust.

SECTION 12: Ecological information

Toxicity

No known effects or chronic hazards

Persistence and degradability

Not applicable

Bioaccumulative potential

Not expected

Mobility in soil

Not expected

Results of PBT and vPvB assessment

No PBT or vPvB assessment is required for inorganic substances

Other adverse effects

No known other significant effects or chronic hazards

SECTION 13: Disposal considerations

Disposal of the product

Dispose of discarded product in compliance with Federal, State and Local regulations

Disposal of contaminated packaging

Clean containers for reuse or dispose of discarded containers in compliance with Federal, State and Local regulations

Waste treatment

Reduce or eliminate airborne dust.

Sewage disposal

Do not flush material to sewer.

Other disposal recommendations

None known

SECTION 14: Transport information

14.1	UN Number	None
14.2	UN Proper Shipping Name	None
14.3	Transport hazard class(es)	None
14.4	Packing group	None
14.5	Environmental hazards	None

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- 14.6 Special precautions for user None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code None
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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

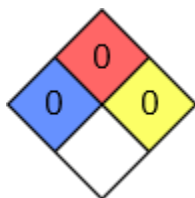
Pennsylvania Right To Know Components

Chemical name: Silica
CAS number: 7631-86-9

HMIS Rating

IHP Ball Mill Powder	
HEALTH	4
FLAMMABILITY	4
PHYSICAL HAZARD	4
PERSONAL PROTECTION	A

NFPA Rating



SECTION 16: Other information

Disclaimer: This information relates to the specific material designated and may not be valid for such material used in combination with any other material or process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty, or guarantee is made as to the accuracy, reliability or completeness. **NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED.** It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warrant against patent infringement.