

**LYMAN PRODUCTS: RAYTECH DIVISION**  
SAFETY DATA SHEET

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 2015/830), US 29CFR1910.1200, Canada Hazardous Products Regulation

Date Issued: 11/5/15  
Date Revised: None  
Revision Number: New SDS

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
AND THE COMPANY/UNDERTAKING**

**1.1 Product Identifier**

**Trade Name** Porcelain Balls Finishing Media  
**Product Number** 41-210, 41-211, 41-214, 41-215, 41-218, 41-219, 41-222, 41-223, 41-226, 41-227

**1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against**

**Product Use:** Finishing media

**Restrictions on Use:** None known

**1.3 Details of the Supplier of the Safety Data Sheet**

**Manufacturer:** Lyman Products  
Raytech Division  
475 Smith Street  
Middletown, CT 06457 USA  
**Information Phone Number:** (860) 632-2020  
**E-mail**

**1.4 Emergency Telephone Number**

**Emergency Spill Information** For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
Within USA and Canada: 1-800-424-9300 or  
+1 703-527-3887 (collect calls accepted)

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the Substance or Mixture**

The product does not present any hazard as sold. However, during use or handling, respirable dust may be released.

**US Hazard Classification (29CFR 1910.1200-2012):** This product is not classified as hazardous in accordance with the OSHA Hazard Communication Standard.

**GHS/CLP (1272/2008) Classification:**

According to European regulations (EC) No 1272/2008, this product is classified as Manufactured Article.

**2.2 Label Elements**

None Required

**2.3 Other Hazards:** None

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2 Mixture**

Chemical Name	CAS#	EINECS#	GHS/CLP Classification	% w/w
Aluminum Oxide	1344-28-1	215-691-6	Not Hazardous	70 - 80
Silica	7631-86-9	7631-86-9	Not Hazardous	10 - 20

Calcium Oxide	1305-78-8	215-138-9	Skin Irritation Category 2 (H315) Eye Damage Category 1 (H318) STOT – Single Exposure Category 3 (H335)	0 - 10
Barium Oxide	1304-28-5	215-127-9	Skin Corrosion Category 1B (H314) Eye Damage Category 1 (H318) Oxidizing Solid Category 1 (H271)	0 - 10

The exact percentage and composition are a trade secret

#### SECTION 4: FIRST AID MEASURES

##### 4.1 Description of First Aid Measures

**Eye:** Do not rub your eyes. Dust particles may cause abrasive eye injury. Flush eyes with water, holding the eyelids apart for several minutes. Get medical attention if irritation occurs and persists.

**Skin:** Do not rub or scratch. If irritation occurs, wash contact area with soap and water. Get medical attention if irritation or symptoms of exposure develop.

**Inhalation:** No harmful effects are expected. Remove to fresh air. If irritation from dust occurs and persists, get medical attention.

**Ingestion:** No harmful effects are expected. If symptoms occur, get medical attention.

**4.2 Most important symptoms and effects, both acute and delayed:** If dust is generated, it may cause slight mechanical eye and skin irritation, and respiratory irritation. Symptoms would include itching eyes and skin, cough, and nasal congestion.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention should not be required.

#### SECTION 5: FIRE AND EXPLOSION DATA

**5.1 Extinguishing Media:** Use media appropriate the surrounding fire. Use fire-fighting measures that suit the location and surroundings.

##### 5.2 Special Hazards Arising from the Substance or Mixture

**Unusual Fire and Explosion Hazards:** None known.

**Combustion Products:** None known.

##### 5.3 Advice for Fire-Fighters:

**Special Fire Fighting Procedures:** Wear an approved, positive pressure, self-contained breathing apparatus and full protective clothing for all fires involving chemicals.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid dust formation and inhalation of dust. Seek to ensure ventilation that maintains airborne concentrations below occupational exposure limits. Keep unprotected persons away. Avoid contact with skin, eyes, and clothing; wear suitable protective equipment when needed.

##### 6.2 Environmental Precautions:

Avoid release to the environment. Report spills and releases as required to appropriate authorities.

##### 6.3 Methods and Material for Containment and Cleaning Up:

Pick up material and place into a container for disposal. If dust is present, wet down and collect in a manner to minimize the generation of airborne dusts or vacuum with a high efficiency vacuum cleaner. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

**6.4 Reference to Other Sections:** Refer to Section 8 for personal protective equipment and Section 13 for disposal information.

<b>SECTION 7: HANDLING AND STORAGE</b>
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**7.1 Precautions for Safe Handling:** Product is not intended for dry use. Use in accordance with product instructions. Avoid the creation of dusts. Avoid breathing dust.

**7.2 Conditions for Safe Storage, Including any Incompatibilities:** None specified.

**7.3 Specific end use(s):** Finishing media.

<b>SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**8.1 Control Parameters:** Refer to country-specific legislation for specific requirements where not listed below.

Chemical Name	Exposure Limits
Aluminum Oxide	15 mg/ m <sup>3</sup> (Total dust); 5 mg/ m <sup>3</sup> (Respirable) TWA OSHA PEL 10 mg/ m <sup>3</sup> (Inhalable); 4 mg/ m <sup>3</sup> (Respirable) TWA UK WEL 4 mg/ m <sup>3</sup> (Inhalable); 1.5 mg/ m <sup>3</sup> (Respirable) TWA DFG MAK 10 mg/ m <sup>3</sup> (Respirable) TWA France 4 mg/ m <sup>3</sup> (Inhalable) TWA China
Silica	6 mg/ m <sup>3</sup> (Inhalable); 2.4 mg/ m <sup>3</sup> (Respirable) TWA UK WEL 4 mg/ m <sup>3</sup> (Inhalable) TWA DFG MAK 2 mg/ m <sup>3</sup> TWA China 4 mg/ m <sup>3</sup> (Inhalable) TWA South Korea
Calcium Oxide	2 mg/ m <sup>3</sup> TWA ACGIH TLV 5 mg/ m <sup>3</sup> TWA OSHA PEL 2 mg/ m <sup>3</sup> TWA UK WEL 1 mg/ m <sup>3</sup> TWA; 2 mg/ m <sup>3</sup> STEL DFG MAK 2 mg/ m <sup>3</sup> TWA France 2 mg/ m <sup>3</sup> TWA China 4 mg/ m <sup>3</sup> (Inhalable) TWA South Korea
Barium Oxide (as Barium)	0.5 mg/ m <sup>3</sup> TWA ACGIH TLV 0.5 mg/ m <sup>3</sup> TWA OSHA PEL 0.5 mg/ m <sup>3</sup> TWA EU 0.5 mg/ m <sup>3</sup> TWA UK WEL 0.5 mg/ m <sup>3</sup> TWA (Inhalable); 4 mg/ m <sup>3</sup> (Inhalable) STEL DFG MAK 0.5 mg/ m <sup>3</sup> TWA France 0.5 mg/ m <sup>3</sup> TWA; 1.5 mg/ m <sup>3</sup> STEL China 0.5 mg/ m <sup>3</sup> TWA South Korea

**8.2 Exposure Controls:**

**Appropriate Engineering Controls:** General exhaust ventilation should be adequate to maintain exposures below occupational exposure limits.

**Respiratory Protection:** None required for normal use. If needed, an approved dust respirator may be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Skin Protection:** Impervious gloves are recommended if needed to avoid prolonged contact.

**Eye Protection:** Safety glasses should be used if eye contact is likely.

**Other Protective Equipment:** None should be needed under normal use conditions.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1 Information on basic Physical and Chemical Properties**

<b>Appearance:</b> White solid of varying size and shape.	<b>Vapor Density:</b> Not applicable
<b>Odor:</b> Odorless.	<b>Specific Gravity:</b> 12.0 -12.6
<b>Odor Threshold:</b> Not applicable	<b>Solubility:</b> Insoluble

<b>pH:</b> Not applicable	<b>Octanol/Water Partition Coefficient:</b> No data available
<b>Melting Point/Freezing Point:</b> Not determined	<b>Autoignition Temperature:</b> Not applicable
<b>Boiling Point:</b> Not applicable	<b>Decomposition Temperature:</b> No data available
<b>Flash Point:</b> Not applicable	<b>Viscosity:</b> Not applicable
<b>Evaporation Rate:</b> Not applicable	<b>Explosive Properties:</b> Not an explosive
<b>Flammable Limits:</b> LEL: Not applicable UEL: Not applicable	<b>Oxidizing Properties:</b> Not an oxidizer
<b>Vapor Pressure:</b> Not applicable	<b>Flammability (solid, gas):</b> Not applicable

**9.2 Other Information:** None available

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:** Not reactive under regular storage and handling conditions.

**10.2 Chemical Stability:** Stable under regular storage and handling conditions.

**10.3 Possibility of Hazardous Reactions:** None known.

**10.4 Conditions to Avoid:** None known.

**10.5 Incompatible Materials:** None known.

**10.6 Hazardous Decomposition Products:** None known.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on Toxicological Effects:**

**Potential Health Effects:**

**Eye Contact:** If dust is generated, it may cause slight mechanical eye irritation. Corneal injury is unlikely.

**Skin Contact:** If dust is generated, may cause slight mechanical irritation with prolonged or repeated exposure.

**Inhalation:** If dust is generated, may cause slight nose and throat irritation.

**Ingestion:** Not expected to be harmful. Ingestion of large amounts may cause gastrointestinal distress.

**Acute Toxicity Values:**

Aluminum Oxide: Oral rat LD50 > 15,900 mg/kg; Inhalation rat LC50 7.6 mg/L/ 1 hr.

Silica: Oral rat LD50 > 5,000 mg/kg; Inhalation rat LC50 > 0.14 mg/L/ 4 hr. (Saturation conc.); Dermal rabbit > 2,000 mg/kg

Calcium Oxide: Oral rat LD50 > 2,000 mg/kg; Dermal rabbit > 2,500 mg/kg

Barium Oxide: No data available.

**Skin corrosion/irritation:** This product is not classified as a skin irritant.

**Eye damage/irritation:** This product is not classified as an eye irritant.

**Respiratory Irritation:** This product is not classified as a respiratory irritant.

**Respiratory Sensitization:** This product is not classified as a respiratory sensitizer.

**Skin Sensitization:** This product is not classified as a skin sensitizer.

**Germ Cell Mutagenicity:** This product is not classified as a germ cell mutagen.

**Carcinogenicity:** None of the components of this product present at 0.1% or greater are listed as carcinogens by OSHA, IARC, NTP, ACGIH and the EU CLP.

**Reproductive Toxicity:** This product is not a reproductive toxin.

**Aspiration Hazard:** This product does not present an aspiration hazard.

**Specific Target Organ Toxicity:**

Single Exposure: No data available

Repeat Exposure: No data available.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

No data available for product. This product is not expected to be hazardous to the environment.

**12.2 Persistence and Degradability:** No data available.

**12.3 Bioaccumulative Potential:** No data available.

**12.4 Mobility in Soil:** No data available.

**12.5 Results of PBT and vPvB Assessment:** No data available.

**12.6 Other Adverse Effects:** None known

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste Treatment Methods:**

Dispose in accordance with all local, state and national regulations.

**SECTION 14: TRANSPORTATION INFORMATION**

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not regulated	N/A	N/A	None
Canadian TDG	None	Not regulated	N/A	N/A	None
EU ADR/RID	None	Not regulated	N/A	N/A	None
IMDG	None	Not regulated	N/A	N/A	None
IATA/ICAO	None	Not regulated	N/A	N/A	None

**14.6 Special Precautions for User:** Not applicable

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:**

**U.S. FEDERAL REGULATIONS:**

**CERCLA 103 Reportable Quantity:** This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

**SARA TITLE III:**

**Hazard Category for Section 311/312:** Not Hazardous

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

**Section 302 Extremely Hazardous Substances (TPQ):** None

**EPA Toxic Substances Control Act (TSCA) Status:** All of the components of this product are listed on TSCA.

**STATE REGULATIONS:**

**California Proposition 65:** This product contains the following substances known to the State of California to cause cancer, birth defects or other reproductive harm: None

**INTERNATIONAL REGULATIONS:**

**Canadian Environmental Protection Act:** All of the components are listed on the Canadian Domestic Substances List.

**German WGK:** nwg

**SECTION 16: OTHER INFORMATION**

<b>HMIS Ratings:</b> Health - 0	Flammability - 0	Physical Hazard - 0
<b>NFPA Ratings:</b> Health - 0	Flammability - 0	Instability - 0

**Supersedes:** None  
**Date Updated:** 11/5/2015  
**Revision Summary:** New SDS

**GHS Classification for Reference (See Sections 2 and 3):**  
STOT – Single Exposure Category 3 – Specific Target Organ Toxicity – Single Exposure Category 3  
H271 May cause fire or explosion; strong oxidizer  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

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This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Lyman Products shall not be held liable for any damage resulting from handling or from contact with the above product.