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**Pyrodex**

**Pyrodex MSDS**

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MATERIAL SAFETY DATA SHEET

**IDENTITY**

Pyrodex, a pyrotechnic mixture, granular or pelletized

**HMIS Rating**

Health Hazard: 1    Flammability Hazard: 3    Reactivity Hazard: 2

Section I.

Hodgdon Powder Co., Inc.  
 6231 Robinson  
 Shawnee Mission, Ks. 66202, USA  
 Emergency Telephone: Chem-tel 800-255-3924  
 Telephone Number for Information: 913-362-9455  
 Date Prepared: 10/31/2005

Section II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

**Hazardous Components**

(Chemical Identity: Common Name(s))	CAS#	OSHA PEL
Charcoal		NA
ACGIH TLV    Other Limits    %(optional)		
NA                      NA                      NA		
Sulfur		7704349
NA                      NA                      NA		
Potassium Nitrate		7757791
NA                      NA                      NA		
Potassium Perchlorate		7778747
NA                      NA                      NA		
Graphite		7782425
NA                      2.5 mg/m3                      Respirable Dust		
Other: Other ingredients are trade secrets, but can be disclosed per 29 CFR 1910.1200(i)		

Section III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	Not Applicable	Specific Gravity (H <sub>2</sub> O = 1):	Bulk density is 0.75 (g/cc)
Vapor Pressure (mm HG):	Not Applicable	Melting Point:	Not Applicable
Vapor Density (AIR = 1)	Not Applicable	Evaporation Rate:	Not Applicable
Solubility in Water: (Acetate = 1)	Partially		(Butyl)
Appearance and Odor:	Medium to dark gray granular solid. Slight odor when ignited.		



Check out the [Funnel Cap](#) in our secure online store.

**Resources**



NZ DISTRIBUTOR  
 Steve's Wholesale Ltd.  
 Units 5 - 7 / 408 The Esplanade  
 Island Bay Wellington 6023  
 team@steveswholesale.nz  
 Emergency Contact: Steve Collings  
 0800 303 303  
 0274 905 708  
 Poison Control 0800 POISON (0800 764 766)

**Pyrodex Pellets**

[Pyrodex Pellets](#)



Pelletized Muzzleloading gun [powder.](#)

**Pyrodex Granular Powder**

[Pyrodex Granular Powder](#)



Granular Muzzleloading gun [powder.](#)

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#### Section IV. FIRE AND EXPLOSION HAZARD DATA

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Auto-ignition Temperature: 740 (F) (Pellets: 500[f])  
 Flammable Limits: N/A LEL: N/A UEL: N/A  
 Extinguishing Media: For unattended fire prevention, water can be used to disburse burning Pyrodex. Pyrodex has its own oxygen supply, so flame smothering techniques are ineffective. Water may be used on unburnt Pyrodex to retard further spread of fire.  
 Special Fire Fighting Procedures: Pyrodex is extremely flammable and may deflagrate. Get away and evacuate the area.  
 Unusual Fire and Explosion Hazards: As with any pyrotechnic, if under confinement or piled in moderate quantities, Pyrodex can explode violently, toxic fumes such as sulfur dioxide are emitted while burning.

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#### Section V. REACTIVITY DATA

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Stability Unstable: Conditions to  
 Avoid: Avoid storage at temperatures above 150[F],  
 Stable: X impact, hot embers,  
 sparks and static discharges.

Incompatibility (Materials to Avoid) Metal powders and acids

Hazardous Decomposition or Byproducts: CO, CO<sub>2</sub>, SO<sub>2</sub>, non-metallic oxides, and suspended particulate matter from burning.

Hazardous May Occur: Conditions  
 to Avoid: Not known to occur.

Polymerization: Will Not Occur: X

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#### Section VI. HEALTH HAZARD DATA

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Route(s) of Entry: Inhalation?: Yes  
 Skin?: Yes Ingestion?: Yes

Health Hazards (acute and Chronic): TLV unknown for ingestion of dust, Acute oral LD<sub>50</sub> in rats is calculated to be 4.0 [g/kg body weight].

Carcinogenicity: No NTP? No  
 IARC? No OSHA regulated?: No

Signs and Symptoms of Exposure: Burning or itching of the eye, nose, or skin; shortness of breath.

Medical Conditions Generally Aggravated by Exposure: Some people may be unusually sensitive to the product.

Emergency and First Aid Procedures: Remove patient from exposure, and if skin contact, wash affected area with copious amounts of water.

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#### Section VII. PRECAUTIONS FOR SAFE HANDLING AND USE

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HSR100169

Steps to Be Taken in Case Material is Released or Spilled: Do not smoke in the area. Powder should be scooped or swept up using non-sparking, conductive tools. This should be done in a manner so that no dusting occurs.

Waste Disposal Method: Wet thoroughly with water to dissolve the powder. Comply with all federal, state, and local laws.

Precautions to Be Taken in Handling and Storing:

Pyrodex is a solid propellant which is designed to propel a mass. Thus appropriate care should be taken to avoid heavy confinement and ignition sources such as, but not limited to, heat, static discharge, embers, friction, and impact. Do not drop containers of powder. Store at temperatures of less than 150[F] in approved magazines.

Other Precautions: In the area of use, avoid all possible sources of ignition and use explosion proof electrical equipment suitable for use with explosive dusts.

#### Regulatory Information:

Pyrodex is Extremely Flammable. Pyrodex is not an explosive regulated by Federal Explosive Law, but may explode if misused. Pyrodex is not smokeless powder, but is approved to ship (DOT) and store (NFPA) as such. Pyrodex is not allowed on passenger aircraft, but may be loaded into ammunition which may be allowed. It may be shipped as a flammable solid by road, rail, vessel, or cargo only aircraft, or as an explosive by road, rail or vessel. While Pyrodex contains no nitrocellulose, the flammable solid proper shipping name is "Smokeless powder for small arms". DOT classifications follow:  
 Flammable Solid (see 49 CFR 173.171): Smokeless powder for small arms, 4.1, NA3178, PG I  
 Explosive: Propellant, solid, 1.3C, UN0499, PG II

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## Section VIII. CONTROL MEASURES

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Respiratory Protection (Specify Type): Disposable NIOSH approved dust masks may be used if desired.  
 Ventilation Local Exhaust: if used, should be equipped with well maintained, continuously active water washing system.

Mechanical (General): Use NEMA Class II, Division 1, Groups F&G motors or better.

Protective Gloves: May use if sensitivity of skin occurs.  
 Wash daily. Eye Protection: Use goggles if sensitivity occurs.

Other Protective Clothing or Equipment: "100%" cotton clothing and grounded work station are recommended to minimize static electricity discharge.

Work/Hygienic Practices: Work with small quantities, keeping main supply in closed container. Shower after exposure, and wash clothing daily.

Please read container warning, and call 913-362-9455 for more information



**The Fine Print**

SW Revision Date 01.12.2020



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spam filters or, more likely, a response from us is being blocked as it comes back to you. Some ISP's have child protection or spam blocking in place that will not let us reply. A very significant percentage of workplace and government email servers will block a reply from us. If you do not get a timely reply, figure we are not able to communicate by email and call us, 913-362-9455

**If you have a safety problem or concern - DO NOT EMAIL - CALL US DIRECTLY - 913-362-9455**

**If you require an immediate reply - CALL US -913-362-9455**

Send mail to [help@hodgdon.com](mailto:help@hodgdon.com) with questions or comments.

Hodgdon Powder Co., Inc. Phone 913-362-9455 Fax 913-362-1307

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