

Pyrodex Family MSDS

MATERIAL SAFETY DATA SHEET

IDENTITY

Pyrodex, a pyrotechnic mixture

HMIS Rating

Health Hazard: 2 Flammability Hazard: 3 Reactivity Hazard: 4

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: 6/17/96

Section II. HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components

(Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	%(optional)
Charcoal	NA	NA	NA	
Sulfur	NA	NA	NA	
Potassium Nitrate	NA	NA	NA	
Potassium Perchlorate	NA	NA	NA	
Graphite	NA	2.5 mg/m ³	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 ₂ 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:	Partially	(Butyl Acetate = 1)	
Appearance and Odor:	Medium to dark gray granular solid. Slight odor when ignited.		

Section IV. FIRE AND EXPLOSION HAZARD DATA

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.

Section V. REACTIVITY DATA

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, CO₂, SO₂, non-metallic oxides, and suspended particulate matter from burning.
 Hazardous May Occur: Conditions to Avoid: Not known to occur.
 Polymerization: Will Not Occur: X

Section VI. HEALTH HAZARD DATA

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

Health Hazards (acute and Chronic): TLV unknown for ingestion of dust, Acute oral LD50 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.

Section VII. PRECAUTIONS FOR SAFE HANDLING AND USE

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.

Section VIII. CONTROL MEASURES

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 I, 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

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Send mail to help@hodgdon.com with questions or comments.
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