

**1. IDENTIFICATION**

Product Identifier: **Paulex Powder** General Use: **External Embalming Powder**  
 Hizone Brands, Ltd. 490 Bennett Road Elk Grove Village, IL 60007 (U.S.A.)  
 Business Hours Phone: (847) 364 - 1590 FAX: (847) 593 - 6605  
**Chemical Emergency only, 24 Hour / 7 Day Response Phone: (800) 535 - 5053 & (352) 323 - 3500 INFOTRAC**

**2. HAZARDS IDENTIFICATION**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

**Hazards**

Acute Oral toxicity. Acute Inhalation toxicity  
 Skin corrosion / irritation. Serious eye damage / eye irritation  
 Skin sensitization. Carcinogenicity  
 Acute aquatic toxicity. Chronic aquatic toxicity

**Label elements**



**Signal Word**

**DANGER**

**Hazard Statements**

Harmful if swallowed. Harmful if inhaled.  
 Causes severe skin burns and eye damage. May cause an allergic skin reaction.  
 May cause damage to organs. May cause cancer.  
 Very harmful to aquatic life, immediate and long-term effects.

**EMERGENCY OVERVIEW:** Flammable solid. Harmful or fatal if swallowed. Eye, skin, and respiratory tract irritant. May be a skin or respiratory tract sensitizer. Excessive exposure may cause tissue protein fixation, kidney and liver damage. Probable Cancer Risk.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:** Dust and fumes are highly irritating to upper respiratory tract. May cause inflammation and swelling to the linings of nose, throat and lungs. High exposures may cause tissue protein fixation, bronchopneumonia and edema.

**EYE CONTACT:** Dust or high fume concentrations cause severe irritation and tearing. May cause severe burns with irreversible damage.

**SKIN CONTACT:** Causes drying, cracking, scaling, and hardening. May cause an allergic dermatitis.

**INGESTION:** Harmful or fatal if swallowed. Causes severe irritation of the mouth, throat and stomach. Can lead to severe stomach pains followed by vomiting, diarrhea, and possible loss of consciousness.

**CHRONIC:** The NTP, IARC, and OSHA list Formaldehyde and p-Dichlorobenzene as potential carcinogens due to studies on laboratory animals. Formaldehyde is also mutagenic in vitro with several bacteria. p-Dichlorobenzene may produce kidney, liver, and lung damage with repeated, long term overexposure.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS No.	% by Wt.	Exposure Limits (ppm)			
			OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Paraformaldehyde	30525-89-4	60 - 85	5 mg/m <sup>3</sup> *	N/Av	5 mg/m <sup>3</sup>	N/Av
* Respirable fraction; ** Total Dust			10 mg/m <sup>3</sup> **	N/Av	10 mg/m <sup>3</sup>	N/Av
Formaldehyde (off-gas of paraformaldehyde)	50-00-0	N/Av	0.75	2.0	0.3	2.0
p-Dichlorobenzene	106-46-7	15 - 40	75	110	10	N/Av

N/Av = Not Available

**4. FIRST AID MEASURES**

**First Responders and Aid -givers:** Prevent contact with contaminated areas and avoid inhalation exposure to fumes and dusts.

**INHALATION:** Remove to fresh air. If breathing has stopped, avoid contact with contaminated areas. Give artificial respiration or cardio pulmonary resuscitation (CPR). Call for medical help. Pulmonary edema (fluid accumulation in lungs) can be delayed for several hours.

**EYE CONTACT:** Flush eyes immediately with water or saline. Clear the under-surface of eyelids. Get medical attention if vision is blurred.

**SKIN CONTACT:** Remove contaminated clothing. Wash with soap and water. Get medical attention if irritation persists.

**INGESTION:** Promptly induce vomiting of conscious patient by giving 2 glasses of water and pressing finger down throat. Prevent aspiration into lungs. Get medical attention immediately. Pulmonary edema (fluid accumulation in lungs) can be delayed for several hours.

**5. FIRE FIGHTING INFORMATION AND MEASURES**

**NFPA:** Health: 3 Flammability: 2 Reactivity / Instability: 1

**FLASH POINT:** (fumes) 150°F **METHOD:** TCC

**FLAMMABLE LIMITS:** 7 - 73% **AUTOIGNITION TEMPERATURE:** Not Available

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, formaldehyde vapors, benzene, nitrogen oxides, HCl, and potentially cyanides.

**EXTINGUISHING MEDIA RECOMMENDED:** Dry chemical, Alcohol foam, CO<sub>2</sub>. Use water spray to cool fire exposed surfaces. Allow surrounding conditions define methods and media type used. Contain and control water run-off for later treatment.

**FIRE FIGHTING INSTRUCTIONS:** Wear self-contained breathing apparatus and full protective equipment for all indoor and outdoor fires.

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL OR LARGE SPILL:** Sweep up and place in a sealed container to contain the hazardous fumes. Utilize appropriately with hardening compound in cadavers, or have a licensed facility handle the disposal in accordance to all applicable Federal, state and local regulations. Ventilate area to reduce hazardous fume concentration and to remove hazardous fumes.

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**7. HANDLING AND STORAGE****HANDLING:** Use in a well-ventilated area. Wash hands, skin and protective apparel thoroughly after handling.**STORAGE:** Keep containers tightly sealed. Keep in well-ventilated areas between 20°F / -6°C and 90°F / 32°C. Exposure to the higher temperatures will accelerate off-gas production of hazardous fumes / gases.**8. EXPOSURE CONTROL / PERSONAL PROTECTION****ENGINEERING CONTROLS:** General or local exhaust is required to keep vapors below permissible exposure limits.**RESPIRATORY PROTECTION:** Use a NIOSH/MSHA approved formaldehyde cartridge or canister respirator with dust pre-filter should be used even if exposure limits are not exceeded. Follow the OSHA guidelines in 29 CFR 1910.134 and 1910.1048. A full-face respirator is highly recommended. Using a self-contained or supplied-air breathing apparatus is suggested.**SKIN PROTECTION:** Use impervious gloves and an impervious gown (or impervious apron and sleeves).**EYE PROTECTION:** Use vapor-tight chemical goggles if a full-face respirator is not worn.**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Range:</b>	over 200°F	<b>Melting Point Range:</b>	starting about 128°F
<b>Vapor Pressure:</b>	1-2 mm Hg	<b>Vapor Density:</b>	>1
<b>Solubility in Water:</b>	40% - 85% (portion of product will also hydrolyze)	<b>Specific Gravity:</b>	1.4
<b>Odor:</b>	Pungent, aromatic	<b>% Volatile by Volume:</b>	100%
<b>Appearance:</b>	Free flowing white flakes and powder	<b>Other:</b>	Product will sublime

**10. STABILITY AND REACTIVITY****CHEMICAL STABILITY** (Conditions to avoid): Heat, sparks, flames.**INCOMPATIBILITY:** Strong acids or alkalis, or oxidizing agents.**HAZARDOUS DECOMPOSITION:** Formaldehyde gas, HCl.**HAZARDOUS POLYMERIZATION:** Can occur. May form reactive peroxides. Polymerization is highly exothermic and can generate sufficient heat to cause thermal decomposition and / or rupture containers**11. TOXICOLOGICAL INFORMATION**

No data for this product mixture. Information provided for individual ingredients.

**Formaldehyde:** Acute oral toxicity, LD50 = 460 mg/Kg,

IDLH\* (Formaldehyde, off-gas by-product): 100 ppm;

\*IDLH = Immediately Dangerous to Life and Health

Formaldehyde is known to the State of California to cause Cancer.

**p-Dichlorobenzene:** Acute oral toxicity, LD50 (rat) = 500 mg/Kg. Suspected of causing Cancer.**12. ECOLOGICAL INFORMATION**

p-Dichlorobenzene is classified as a Marine Pollutant with Acute (immediate) and Chronic (long-term) aquatic toxicity. Prevent product or fire fighting water run-off from entering natural waterways. Paraformaldehyde will both sublime and hydrolyze to evolve Formaldehyde gas. Formaldehyde is harmful to bacteria and other living organisms, which will delay biological decomposition.

**13. DISPOSAL CONSIDERATIONS**

See Section 6.

**14. TRANSPORTATION INFORMATION****DOT (ground transport):**

ORM-D Consumer Commodity for pint / 1 pound container inner unit packaging within North America per NAFTA Agreement

Larger containers -- UN1325, Flammable Solids, Organic, N.O.S. Mixture (Paraformaldehyde, p-Dichlorobenzene), 4.1 P.G. III.

**ICAO / IATA (Air Transport):** This product must be manifested as a Dangerous Good for all packaging unit sizes.

UN1325 Flammable Solids, Organic, N.O.S. Mixture (Paraformaldehyde, p-Dichlorobenzene), 4.1 P.G. III.

**IMO (Ocean Transport):** This product must be manifested as a Dangerous Good for all packaging unit sizes.

UN1325 Flammable Solids, Organic, N.O.S. Mixture (Paraformaldehyde, p-Dichlorobenzene), 4.1 P.G. III.

Identify also as "Marine Pollutant".

**15. REGULATORY INFORMATION****EPCRA, Sec. 313 listed materials:**

Paraformaldehyde CAS #30525-89-4, 60% - 85%

Formaldehyde (as off-gas of Paraformaldehyde) CAS #50-00-0, 60% - 85%;

1,4-Dichlorobenzene (p-Dichlorobenzene) CAS #106-46-7, 15% - 40%

**WARNING:** This product contains chemicals known to the State of California to cause cancer.**16. OTHER INFORMATION****NFPA HAZARD RATING:** Health: 3 Flammability: 2 Reactivity / Instability: 1

KEY: (4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Minimal)

(s) = Skin contact may significantly add to the overall exposure hazard effects.

NOTICE: The information herein is presented in good faith and believed to be accurate and complete as of the effective date shown above. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer's responsibility to ensure that its activities with this product comply with all federal, state, and local laws. It is unlawful to utilize this product in any fashion than it was intended by the manufacturer.