

Material Safety Data Sheet

Revision Date: 8/14/00

NA = Not Applicable NE = Not Established

Section 1. General Information

Product Name: **IPATOP HF (High Flow)**

Chemical Family: Cements

Manufacturer: **IPA Systems, Inc.**
 2745 North Amber Street, Philadelphia, Pa. 19134
 Phone: 800-523-3834 • 215-425-6607
 Fax: 215-425-6234
 E-mail: info@ipasystems.com
 Website: www.ipasystems.com

HMIS Rating: Health: 2
 Fire: 0
 Reactivity: 1
 Personal Protection: E

UN Hazard Class: Not regulated

Emergency Phone Number - Chemtrec: 800-424-9300

Section 2. Hazardous Ingredients

<u>Principal Hazardous Components:</u>	<u>C.A.S. Reg. No.</u>	<u>Percent</u>	<u>Threshold Limit Value (units)</u>
Crystalline Silica (SD)	14808-60-7	< 65	0.1 mg/m ³ resp.
Portland Cement (PC)	65997-15-1	< 25	5 mg/m ³ resp., 10 mg/m ³ total
Calcium Sulfate (CS)	7778-18-9	< 5	10 mg/m ³
Calcium Oxide (COx)	1305-78-8	< 5	2 mg/m ³

Section 3. Physical Data

Boiling Point (F): NA
 Vapor Pressure (mm Hg.): NA
 Vapor Density (Air = 1): NA
 Solubility in Water:
 Volatile Organic Compounds: 0
 Appearance and Odor: Grey powder, no odor

Specific Gravity: (H₂O = 1): 2.8
 Percent Volatile by Volume: NA
 Evaporation Rate: NA
 pH: NA

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Section 4. Fire and Explosion Hazard Data

Flash Point: NA

Auto Ignition Temperature: NA

Flammable Limits: LEL = NA UEL = NA

Extinguishing Media: CO₂, dry chemical, water or fog

Special Fire Fighting Procedures: Firefighters should use pressure demand MSHA/NIOSH approved self-contained breathing apparatus, protective clothing and full emergency equipment.

Unusual Fire & Explosion Hazards: This product is alkaline and releases considerable heat on contact with small amounts of water. Avoid contact between resulting hot alkaline paste and metallic aluminum. Such contact could generate hydrogen gas.

Section 5. Health Hazard Data

OSHA PEL: 0.1 mg/m³ resp. – SD
5 mg/m³ resp., 10 mg/m³ total – PC
10 mg/m³ resp. – CS
2 mg/m³ – COx

ACGIH TLV: 0.1 mg/m³ – SD
5 mg/m³ resp., 10 mg/m³ total – PC
10 mg/m³ – CS
2 mg/m³ – COx

Carcinogen – NTP Program: Yes (SD)

Carcinogen – IARC Program: Yes (SD)

Symptoms of Exposure: Acute – Material can severely irritate the eyes. If not removed promptly, will injure eye tissue and may result in permanent damage. Material may irritate skin and upper respiratory system. If swallowed, material will irritate mouth, throat and stomach.

Chronic – Cement dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive people may develop dermatitis. (Cement may contain traces of hexavalent chromium.) This product contains silicon dioxide (quartz), which has been listed as a suspected human carcinogen by NTP and IARC. Repeated or prolonged exposure to silica dust may cause permanent lung damage and cancer (Silicosis).

Medical Conditions Aggravated by Exposure: Dermatitis.

Routes of Entry: Eye Contact, Skin Contact, Inhalation, Ingestion.

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for at least 15 minutes. Get medical attention immediately.

Skin Contact: Remove contaminated clothing. Wash affected areas of the body immediately with soap and water. If any symptoms occur, get medical attention.

Inhalation: Immediately remove victim to fresh air. Give oxygen or artificial respiration as needed. Get medical attention immediately.

If Swallowed: Do not induce vomiting. Give victim a glass of water or milk. Never give anything to drink to an unconscious person. Immediately contact a physician or poison control center. If vomiting occurs, be sure to keep victim's head lower than hips to avoid aspiration of vomitus into lungs.

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Section 6. Reactivity Data

Stability: Stable

Conditions to Avoid: Keep dry until ready to use.

Incompatibility (Materials to Avoid Contact): Strong bases or oxidants. Strong Lewis or mineral acids.

Hazardous Decomposition or By-Products: Acrid fumes. Oxides of carbon.

Hazardous Polymerization: Will not occur under normal conditions.

Section 7. Procedures for Safe Handling and Use

Spill Response: Vacuum or sweep up material and place in a disposal container. Do not disperse the dust into the air. Wear dust/mist mask or other appropriate protection to avoid breathing the dust. Ventilate the area. Keep material out of surface waters, sewers and waterways entering or leading to surface waters.

Waste Disposal Method: Flush spill with excess water to a chemical sewer or soak up with inert absorbent. Always dispose of waste according to local, state and federal regulations.

Other Precautions: See all other sections of this MSDS. Keep out of reach of children. Keep container closed when not in use.

Section 8. Control Measures

Respiratory Protection: Concentrations greater than the TLV can occur when mixed or applied in a poorly ventilated area. Use MSHA/NIOSH approved air respirator when concentrations are expected to exceed the TLV. (See OSHA 29 CFR 1910.134) Avoid breathing vapors, mists, fumes and airborne dusts.

Ventilation: Local exhaust recommended to prevent build-up above the TLV during use.

Skin Protection: Use chemical resistant gloves and protective clothing to protect skin from contact.

Eye Protection: Use chemical safety goggles with face shield to prevent eye contact.

Other Protection: Avoid contact with eyes, skin and clothing. Wash thoroughly before eating. Wash contaminated clothing before reuse.

Section 9. Special Precautions

Hygienic Practices in Handling and Storage: This product may contain 30 - 80% silica sand, a portion of which may be respirable dust. In its dry state, refrain from inhalation of dust to prevent possible free silica exposure.

Precautions for Repair and Maintenance of Contaminated Equipment: NA

Other Precautions: Store material in a cool, dry place.

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Section 10. Regulatory Information

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA SARA Hazard Category:

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA / Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard

Chronic Health Hazard

SARA / Title III – Toxic Chemicals List:

This product does not contain a toxic chemical for reporting under Section 313 (40 CFR 372).

Toxic Substances Control Act (TSCA):

This product contains no substances subject to the reporting requirements of TSCA 12(B) if exported from the United States.

WHMIS Classification: No information available

HMIS Rating:	Health:	2
	Fire:	0
	Reactivity:	1
	Personal Protection:	E

California Proposition 65:

This product contains trace amounts of the following chemicals known to the state of California to cause cancer and/or reproductive toxicity.

Hydrazine sulfate	C.A.S. # 10034-93-2
Silica, quartz	C.A.S. # 14808-60-7