SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** AS-150 HAPS Free Gray  
**MSDS Manufacturer Number:** AS124R  
**Manufacturer Name:** ITW Polymer Technologies  
**Address:** 130 Commerce Drive  
Montgomeryville, PA 18936  
**General Phone Number:** (215) 855-8450  
**Emergency Phone Number:** (215) 855-8450  
**CHEMTREC:** For emergencies in the US, call CHEMTREC: 800-424-9300  
**Canutec:** In Canada, call CANUTEC: (613) 996-6666 (call collect)  
**MSDS Creation Date:** 2/23/2010  
**MSDS Revision Date:** 09/12/2010  

HMIS  
Health Hazard 1  
Fire Hazard 2  
REACTIVITY 1  
Personal Protection X  
* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

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<tr>
<th>Chemical Name</th>
<th>CAS#</th>
<th>Ingredient Percent</th>
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<td>Non hazardous ingredients</td>
<td>No data</td>
<td>10 - 30 by weight</td>
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<tr>
<td>Nepheline syenite</td>
<td>37244-96-5</td>
<td>10 - 30 by weight</td>
</tr>
<tr>
<td>Silica, crystalline (quartz)</td>
<td>14808-60-7</td>
<td>10 - 30 by weight</td>
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<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>1 - 5 by weight</td>
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<tr>
<td>1-methoxy-2-propanol</td>
<td>107-98-2</td>
<td>1 - 5 by weight</td>
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<td>Solvent naphtha, petroleum, light aromatic</td>
<td>64742-95-6</td>
<td>1 - 5 by weight</td>
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<td>Benzene, 1-chloro-4-(trifluoromethyl)-</td>
<td>98-56-6</td>
<td>10 - 30 by weight</td>
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<tr>
<td>Natural wollastonite</td>
<td>13983-17-0</td>
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<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 1 by weight</td>
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</tbody>
</table>

SECTION 3 - HAZARDS IDENTIFICATION

**Emergency Overview:** WARNING! Combustible. Irritant.  
**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.  
**Potential Health Effects:**  
- **Eye:** May cause irritation.  
- **Skin:** May cause irritation.  
- **Inhalation:** Prolonged or excessive inhalation may cause respiratory tract irritation.  
- **Ingestion:** May be harmful if swallowed. May cause vomiting.  
**Chronic Health Effects:** Prolonged or repeated contact may cause skin irritation.  
**Signs/Symptoms:** Overexposure may cause headaches and dizziness.  
**Target Organs:** Eyes. Skin. Respiratory system. Digestive system. Central nervous system.
SECTION 4 - FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.

Skin Contact: Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

Ingestion: If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Other First Aid: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties: Combustible liquid.
Flash Point: 105 °F
Auto Ignition Temperature: Not determined.
Lower Flammable/Explosive Limit: Not determined.
Upper Flammable/Explosive Limit: Not determined.

Fire Fighting Instructions: Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.

Extinguishing Media: Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.

Protective Equipment: As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.

Unusual Fire Hazards: Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions: Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.

Environmental Precautions: Avoid runoff into storm sewers, ditches, and waterways.

Spill Cleanup Measures: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Combustible, eliminate ignition sources. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.

Other Precautions: Pump or shovel to storage/salvage vessels.
SECTION 7 - HANDLING and STORAGE

Handling: Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.

Storage: Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.

Special Handling Procedures: Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.

Hygiene Practices: Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Eye/Face Protection: Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.

Skin Protection Description: Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.

Respiratory Protection: A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Other Protective: Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Silica, crystalline (quartz):
Guide ACIGIH: 0.025 mg/m³
TLV-TWA: 0.025 mg/m³ Respirable fraction (R)

Guide OSHA: [10 mg/m³]/[{% SiO₂} + 2]

Aluminum oxide:
Guide ACIGIH: 10 mg/m³
TLV-TWA: 10 mg/m³

Guide OSHA:
5 mg/m³
PEL-TWA: 15 mg/m³ Total particulate/dust (T)
PEL-TWA: 5 mg/m³ Respirable fraction (R)

1-methoxy-2-propanol:
Guide ACIGIH: 100 ppm
TLV-STEL: 150 ppm
TLV-TWA: 100 ppm

Titanium dioxide:
Guide ACIGIH: 10 mg/m³
TLV-TWA: 10 mg/m³

Notes: Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance: Paste.
Color: Gray
Boiling Point: >240 °F
Melting Point: Not determined.
Vapor Density: 3.7
Vapor Pressure: 8 mmHg
Evaporation Rate: 0.7
pH: Not determined.
Molecular Formula: Mixture
Molecular Weight: Mixture
Flash Point: 105 °F
Auto Ignition Temperature: Not determined.
VOC Content: 0.71 lbs/gal (86 g/l)

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Hazardous Polymerization: Not reported.
Conditions to Avoid: Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS Number: QP9365000
Silica, crystalline (quartz):
RTECS Number: VV7330000
Carcinogenicity: IARC: Group 1: Carcinogenic to humans.
NTP: Reasonably anticipated to be a human carcinogen.

Aluminum oxide:
RTECS Number: BD1200000
Skin: Intraperitoneal. - Mouse LD50: >3600 mg/kg [Details of toxic effects not reported other than lethal dose value.]

1-methoxy-2-propanol:
RTECS Number: UB7700000
Eye: Intraperitoneal. - Rat LD50: 3720 mg/kg [Details of toxic effects not reported other than lethal dose value.]
Skin: Intraperitoneal. - Rat LD50: 7800 mg/kg [Behavioral - Convulsions or effect on seizure threshold Behavioral - Ataxia Lungs, Thorax, or Respiration - Dyspnea]
Intravenous. - Rat LD50: 4200 mg/kg [Behavioral - Convulsions or effect on seizure threshold Behavioral - Ataxia Lungs, Thorax, or Respiration - Dyspnea]
Oral - Mouse LD50: 11700 mg/kg [Behavioral - Convulsions or effect on seizure threshold Behavioral - Ataxia Lungs, Thorax, or Respiration - Dyspnea]
Intravenous. - Mouse LD50: 5300 mg/kg [Behavioral - Convulsions or effect on seizure threshold Behavioral - Ataxia Lungs, Thorax, or Respiration - Dyspnea]

Inhalation:
Inhalation - Rat LC50: 10000 ppm/5H [Details of toxic effects not reported other than lethal dose value.]

Ingestion:
Oral - Mouse LD50: 11700 mg/kg [Behavioral - Convulsions or effect on seizure threshold Behavioral - Ataxia Lungs, Thorax, or Respiration -
**SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity: No ecotoxicity data was found for the product.

Environmental Fate: No environmental information found for this product.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste Disposal: Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.

RCRA Number: D001

Important Disposal Information: DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

**SECTION 14 - TRANSPORT INFORMATION**

DOT Shipping Name: Paint

DOT UN Number: UN1263

DOT Hazard Class: 3

DOT Packing Group: III

**SECTION 15 - REGULATORY INFORMATION**
### SECTION 15  REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Canada DSL</th>
<th>Massachussetts:</th>
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<td>All components of this product are on the Canadian Domestic Substances List.</td>
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### WHMIS Pictograms

![WHMIS Pictogram](image)

### SECTION 16 - ADDITIONAL INFORMATION

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<th>Property</th>
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<td>HMIS Health Hazard</td>
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<tr>
<td>HMIS Reactivity</td>
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<td>HMIS Personal Protection</td>
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<tr>
<td>MSDS Creation Date</td>
<td>2/23/2010</td>
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<tr>
<td>MSDS Revision Date</td>
<td>09/12/2010</td>
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<tr>
<td>MSDS Revision Notes</td>
<td>Formulation change</td>
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<td>MSDS Author</td>
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**Disclaimer:**

This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

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