



# Material Safety Data Sheet

Issue Date: 02-NOV-2007  
Supersedes: 05-MAY-2000

HPC 19M

## 1 Identification of Product and Company

### Identification of substance or preparation

HPC 19M

### Product Application Area

Accelerator

### Company/Undertaking Identification

GE Betz, Inc.  
4636 Somerton Road  
Trevose, PA 19053  
T 215 355-3300, F 215 953 5524

### Emergency Telephone

(800) 877-1940

Prepared by Product Stewardship Group: 215 355-3300

## 2 Composition / Information On Ingredients

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Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation. This product is subject to the Pennsylvania and New Jersey Worker and Community Right to Know Law.

### HAZARDOUS INGREDIENTS:

Cas#	Chemical Name	Range (w/w%)
7631-95-0	SODIUM MOLYBDATE (MOLYBDIC ACID, DISODIUM SALT) Potential irritant (respiratory); potential lung toxicity	30-60

### NON-HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
7732-18-5	WATER

## 3 Hazards Identification

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### EMERGENCY OVERVIEW

**WARNING**

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable  
Odor: Mild; Appearance: Colorless, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

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**POTENTIAL HEALTH EFFECTS**

**ACUTE SKIN EFFECTS:**

Primary route of exposure; May cause slight irritation to the skin.

**ACUTE EYE EFFECTS:**

May cause moderate irritation to the eyes.

**ACUTE RESPIRATORY EFFECTS:**

Mists/aerosols may cause irritation to upper respiratory tract.

**INGESTION EFFECTS:**

May cause gastrointestinal irritation.

**TARGET ORGANS:**

Prolonged or repeated exposures may cause toxicity to the lung.

**MEDICAL CONDITIONS AGGRAVATED:**

Not known.

**SYMPTOMS OF EXPOSURE:**

May cause redness or itching of skin.

## 4 First Aid Measures

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**SKIN CONTACT:**

Wash thoroughly with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

**EYE CONTACT:**

Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.

**INHALATION:**

If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

**INGESTION:**

Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 2-8 fluid ounces (60-240 mL) of milk or water.

**NOTES TO PHYSICIANS:**

No special instructions

## 5 Fire Fighting Measures

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**FIRE FIGHTING INSTRUCTIONS:**

Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).

**EXTINGUISHING MEDIA:**

dry chemical, carbon dioxide, foam or water

**HAZARDOUS DECOMPOSITION PRODUCTS:**

none identified

**FLASH POINT:**

> 200F > 93C P-M(CC)

## 6 Accidental Release Measures

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**PROTECTION AND SPILL CONTAINMENT:**

Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.

**DISPOSAL INSTRUCTIONS:**

Water contaminated with this product may be sent to a sanitary sewer treatment facility, in accordance with any local agreement, a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

## 7 Handling & Storage

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**HANDLING:**

Normal chemical handling.

**STORAGE:**

Keep containers closed when not in use. Protect from freezing.

## 8 Exposure Controls / Personal Protection

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**EXPOSURE LIMITS**

**CHEMICAL NAME**

SODIUM MOLYBDATE (MOLYBDIC ACID, DISODIUM SALT)

PEL (OSHA): 5 MG/M3 (AS Mo)

TLV (ACGIH): 0.5 MG/M3 (AS Mo) RESPIRABLE FRACTION

**ENGINEERING CONTROLS:**

Adequate ventilation to maintain air contaminants below exposure limits.

**PERSONAL PROTECTIVE EQUIPMENT:**

Use protective equipment in accordance with 29CFR 1910 Subpart I

**RESPIRATORY PROTECTION:**

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS. If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

**SKIN PROTECTION:**

rubber, butyl, viton or neoprene gloves -- Wash off after each use. Replace as necessary.

**EYE PROTECTION:**

splash proof chemical goggles

## 9 Physical & Chemical Properties

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Specific Grav.(70F,21C)	1.396	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	16	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-9		
Viscosity(cps 70F,21C)	17	% Solubility (water)	100.0

Odor	Mild
Appearance	Colorless
Physical State	Liquid
Flash Point	P-M(CC) > 200F > 93C
pH 5% Sol. (approx.)	11.6
Evaporation Rate (Ether=1)	< 1.00
Percent VOC:	0.0

**NA = not applicable    ND = not determined**

## 10 Stability & Reactivity

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**STABILITY:**

Stable under normal storage conditions.

**HAZARDOUS POLYMERIZATION:**

Will not occur.

**INCOMPATIBILITIES:**

May react with strong oxidizers.

**DECOMPOSITION PRODUCTS:**

none identified

**INTERNAL PUMPOUT/CLEANOUT CATEGORIES:**

"B"

## 11 Toxicological Information

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Oral LD50 RAT:	>5,000 mg/kg
NOTE - Estimated value; 100% neat material rat oral LD50:	2,810 mg/kg
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value; 100% neat material rabbit dermal LD50:	>1,000 mg/kg
Inhalation LC50 RAT:	
NOTE - 100% neat material maximum achievable concentration LC50:	>8.68 mg/L/4hr

## 12 Ecological Information

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#### **AQUATIC TOXICOLOGY**

Bluegill Sunfish 96 Hour Static Acute Bioassay  
LC50= 19400; No Effect Level= 6850 mg/L  
Daphnia magna 48 Hour Static Acute Bioassay  
LC50= 9200; No Effect Level= 5140 mg/L  
Fathead Minnow 96 Hour Static Acute Bioassay  
LC50= 21800; No Effect Level= 16000 mg/L  
Rainbow Trout 96 Hour Static Acute Bioassay  
LC50= 20970; No Effect Level= 9140 mg/L

#### **BIODEGRADATION**

No Data Available.

## **13 Disposal Considerations**

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If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :  
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

## **14 Transport Information**

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DOT HAZARD: Not Applicable  
PROPER SHIPPING NAME:

DOT EMERGENCY RESPONSE GUIDE #: Not applicable  
Note: Some containers may be DOT exempt, please check BOL for exact container classification

## **15 Regulatory Information**

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#### **TSCA:**

All components of this product are included on or are in compliance with the U.S. TSCA regulations.

#### **CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):**

No regulated constituent present at OSHA thresholds

#### **SARA SECTION 312 HAZARD CLASS:**

Immediate(acute);Delayed(Chronic)

#### **SARA SECTION 302 CHEMICALS:**

No regulated constituent present at OSHA thresholds

#### **SARA SECTION 313 CHEMICALS:**

No regulated constituent present at OSHA thresholds

#### **CALIFORNIA REGULATORY INFORMATION**

#### **CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):**

No regulated constituents present

**MICHIGAN REGULATORY INFORMATION**

No regulated constituent present at OSHA thresholds

## 16 Other Information

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NFPA/HMIS		CODE TRANSLATION
Health	1	Slight Hazard
Fire	0	Minimal Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

### CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
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MSDS status:	05-MAY-2000		** NEW **
	02-NOV-2007	4,5,8,10	05-MAY-2000