



# SAFETY DATA SHEET

## P-F407

CHEMICAL CODE: P-F407

PRODUCT NAME: HIGH TEMPERATURE FLUID-LOSS (POWDER)



**NFPA RATING:**

**HEALTH HAZARD: 2 FLAMMABILITY: 1 REACTIVITY: 0 OTHER:**

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

### 1. IDENTIFICATION

<b>Petrochem Product Identifier:</b>	<b>P-F407</b>
<b>Recommended use</b>	Fluid-loss / Gas Control Additive (Powder)
<b>Recommended restrictions</b>	None known.
<b>Manufacturer</b>	<b>Petrochem USA, Inc.</b>
<b>Address</b>	4111-D N.W. 132 Street Opa Locka, Fl. 33054
<b>Telephone</b>	305-685-8282
<b>Website</b>	<a href="http://www.petrochem.us">www.petrochem.us</a>
<b>E-mail:</b>	<a href="mailto:info@petrochem.us">info@petrochem.us</a>
<b>In case of emergency</b>	1-800-424-9300 (INTERNATIONAL 1-703-527-3887) 24-HOUR EMERGENCY CONTACT: CHEMTREC - COLLECT CALLS ACCEPTED

### 2. HAZARDS IDENTIFICATION

<b>Physical hazards</b>	Dust, Water slick.
<b>Health hazards</b>	Irritate eye and skin slightly; Cause irritation of the mucosal and upper respiratory tract. Carcinogenicity (Category 1A)
<b>Environmental hazards</b>	Slightly toxic to fish & animal.
<b>OSHA defined hazards</b>	Combustible dust
<b>Label elements</b>	



<b>Signal word</b>	Warning
<b>Hazard statement</b>	Causes skin irritation. Causes serious eye damage. May form combustible dust concentrations in air.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves. Prevent dust accumulation to minimize explosion hazard. Observe good industrial hygiene practices.
<b>Response</b>	If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice, attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate media to extinguish.



# SAFETY DATA SHEET

**Storage** Store in a cool, dry place, keep away heat, fire & incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.  
**Hazard(s) not otherwise classified (HNOC):** None known.  
**Supplemental information** None.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS number</u>	<u>%</u>
Proprietary High Temperature Polymer Mixture	Mixture		80 - < 80

### 4. FIRST AID MEASURES

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.  
**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.  
**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.  
**Ingestion** Rinse mouth. Get medical attention if symptoms occur. IF SEVERAL GRAMS ARE SWALLOWED, GIVE 2 GLASSES OF MILK (PREFERRED) OR WATER AND CONSULT PHYSICIAN.  
**Most important symptoms/effects, acute and delayed:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness & pain.  
**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.  
**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** Water Fog, Foam, Dry chemical powder, Carbon dioxide (CO<sub>2</sub>). Apply extinguishing media carefully to avoid creating airborne dust.  
**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.  
**Specific hazards arising from the chemical** Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed.  
**Special protective equipment & precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.  
**Firefighting equipment/instructions** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode when fighting fires.  
**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.  
**General fire hazards** May form combustible dust concentrations in air. Will burn at high temperatures.

# SAFETY DATA SHEET

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use only non-sparking tools. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up:** Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect dust using a vacuum cleaner equipped with HEPA filter.

**Large Spills:** Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water. **Small Spills:** Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

## 7. HANDLING & STORAGE

**Precautions for safe handling**

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Keep tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Exposure guidelines</b>	No exposure guidelines noted for ingredient(s).
<b>Appropriate engineering controls</b>	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.



# SAFETY DATA SHEET

If engineering measures are not sufficient to maintain concentrations of dust particulates below the occupational Exposure Limit (OEL), suitable respiratory protection must be worn. Eye wash facilities and emergency shower must be available when handling this product.

## Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Wear chemical goggles. Eye wash fountains are required.
<b>Skin/Hand protection</b>	Wear appropriate chemical resistant gloves.
<b>Other</b>	Wear appropriate chemical resistant clothing.
<b>Respiratory protection</b>	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Color</b>	Light Brown.
<b>Odor</b>	Faint.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	1630.4 °F (888 °C) estimated
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	> 200.0 °F (> 93.3 °C)
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit – lower (%)</b>	Not available.
<b>Flammability limit – upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.00001 hPa estimated
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility (water)</b>	Soluble.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Density</b>	2.67 g/cm <sup>3</sup> estimated
<b>Explosive properties</b>	Not explosive.
<b>Flammability class</b>	Combustible IIIB estimated
<b>Oxidizing properties</b>	Not oxidizing.
<b>Specific Gravity</b>	1.220
<b>Absolute Volume</b>	0.0984



# SAFETY DATA SHEET

## 10. STABILITY & REACTIVITY

### Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

### Chemical stability

Material is stable under normal conditions.

### Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Avoid Open fire & High temperatures.

### Conditions to avoid

Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point. Minimize dust generation and accumulation. Contact with incompatible materials, such as Strong oxidizing agents & Alkaline metals.

### Incompatible materials

### Hazardous decomposition products

When heated strongly or burned, oxides of carbon, sulfur oxides, nitrogen oxides, ammonia and harmful organic fumes are released.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

- **Inhalation**

Dust may irritate respiratory system. Prolonged inhalation may be harmful.

- **Skin contact**

Causes skin irritation & redness.

- **Eye contact**

Direct contact with eyes may cause temporary irritation.

- **Ingestion**

Expected to be a low ingestion hazard Swallowing large amounts may cause illness, nausea & vomiting.

- **Symptoms related to the physical, chemical and toxicological characteristics:** Severe eye irritation. Dusts may irritate the respiratory tract, skin and eyes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

- **Acute toxicity**

#### Components

#### Species

#### Test Results

#### Acute

#### **Dermal**

LD50

Female Rats

>5000 mg/kg.

#### **Inhalation**

LC50

Not Known

#### **Oral**

LD50

Not Known

- **Skin corrosion/irritation**

Causes skin irritation.

- **Serious eye damage/eye irritation**

Causes serious eye damage.

### Respiratory or skin sensitization

- **Respiratory sensitization**

Not a respiratory sensitizer.

- **Skin sensitization**

This product is not expected to cause skin sensitization.

### Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

### Carcinogenicity

This product is considered to be a carcinogen by IARC, ACGIH, NTP, and OSHA.



# SAFETY DATA SHEET

## IARC Monographs. Overall Evaluation of Carcinogenicity

Silica - Crystalline, Quartz (CAS 14808-60-7) 1 Carcinogenic to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**US. National Toxicology Program (NTP) Report on Carcinogens:** Not listed.

<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Prolonged exposure may cause chronic effects.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<u>Components</u>	<u>Species</u>	<u>Test Results</u>
Trade Secret		
<b><u>Aquatic</u></b>		
Crustacea EC50	WATER FLEA (DAPHNIA MAGNA)	5.37 - 8.77 mg/l, 45 days
Crustacea LC50	WATER FLEA (DAPHNIA MAGNA)	16.5 mg/l, 21 days
<b>Persistence and degradability</b>	No data is available on the degradability of this product.	
<b>Bioaccumulative potential</b>	No data available.	
<b>Mobility in soil</b>	No data available.	
<b>Other adverse effects</b>	Not available.	

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents, container in accordance with local, regional, national, international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

<b>DOT</b>	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS.
<b>IATA</b>	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS.
<b>IMDG</b>	NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.



# SAFETY DATA SHEET

## 15. REGULATORY INFORMATION

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.	
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>		Not regulated.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>		Not listed.
<b>SARA 304 Emergency release notification</b>		Not regulated.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		Not listed.
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>		
<b>Hazard categories</b>		Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
<b>SARA 302 Extremely hazardous substance</b>		Not listed.
<b>SARA 311/312 Hazardous chemical</b>		Yes
<b>SARA 313 (TRI reporting)</b>		Not regulated.

### Other federal regulations

<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated.
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated.
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.

### US state regulations

<b>US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)</b>	Not listed.
<b>US. Massachusetts RTK - Substance List</b>	Not regulated.
<b>US. New Jersey Worker and Community Right-to-Know Act</b>	Not listed.
<b>US. Pennsylvania Worker and Community Right-to-Know Law</b>	Not listed.
<b>US. Rhode Island RTK</b>	Not regulated.
<b>US. California Proposition 65</b>	
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.	

### International Inventories

<u>Country(s) or regions</u>	<u>Inventory Name</u>	<u>On Inventory (Yes/No)*</u>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States/Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).



# SAFETY DATA SHEET

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Issue date:** 5/30/15

**Version #** 01

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