

SAFETY DATA SHEET

High Pressure Fluid

Date of Preparation: 06/12/2014

SDS #: 920-16001-00MSDS

SECTION 1: IDENTIFICATION

Product Identification: High Pressure Fluid

CAS Number: Not applicable

Volumes: 1 L

Recommended Use: Laboratory purposes, manufacture of chemicals

Restrictions: For laboratory use only.

Supplier Information:

Micromeritics Instrument Corp.
4356 Communications Drive
Norcross, GA 30093-2901 USA

Contact: Human Resources
Phone: (770) 662-3620
Fax: (770) 662-3696

Manufacturer: Micromeritics Instrument Corp., 4356 Communications Drive, Norcross, GA 30093 (770) 662-3620

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Category 4 Flammable Liquid, Category 1 Aspiration Hazard, Category 2 Skin Irritation, Category 3 Specific Target Organ Toxicity (Single Exposure) , Category 2 Chronic Aquatic Toxicity

Signal word: Warning

Hazard Statements:

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H320: Causes eye irritation.

Pictograms:



Precautionary Statements:

P210: Keep away from heat / sparks / open flames / hot surfaces. No smoking.

P233: Keep container tightly closed.

- P260: Do not breathe dust / fume / gas / mist / vapors/ spray.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves / protective clothing / eye protection / face protection.
- P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331: Do not induce vomiting.
- P332 + 313: If skin irritation occurs: Get medical advice / attention.
- P362: Take off contaminated clothing and wash before reuse.
- P391: Collect spillage.
- P403: Store in a well-ventilated place.
- P501: Dispose of contents / container to an approved waste disposal plant.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	% vol
Kerosene	8008-20-6	
Synthetic Oil	64742-96-7	

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH
	TWA	STEL	TWA	STEL	TWA	STEL	IDLH
Kerosene	500 ppm	none estab.	100 ppm	none estab.	none estab.	none estab.	none estab.
Synthetic Oil	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.	none estab.

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If necessary, provide additional oxygen once breathing is restored if trained to do so. Seek medical attention immediately.

Skin contact: Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Wash contaminated clothing before re-use. If skin irritation persists, seek medical attention.

Eye contact: Remove contact lenses. In case of eye contact, immediately flush with low pressure, cool water for at least 15 minutes, opening eyelids to ensure flushing.

Ingestion: Do NOT induce vomiting. If vomiting does occur naturally, keep head below the hips to reduce the risks of aspiration. Obtain medical attention. Do not give liquids. Small amounts of material which enter the mouth should be rinsed out until the taste is dissipated.

Notes to physician: Symptoms: Aspiration may cause pulmonary edema and pneumonitis. Treatment: Do not induce vomiting. Remove from further exposure and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO₂), Water spray, Dry chemical, Foam, Keep containers and surroundings cool with water spray., Water may be ineffective for fighting the fire, but may be used to cool fire-exposed containers.

Specific hazards during fire -fighting: Fire Hazard Do not use a solid water stream as it may scatter and spread fire. Cool closed containers exposed to fire with water spray. Sealed containers may rupture when heated. Above the flash point, explosive vapor-air mixtures may be formed. Vapors can flow along surfaces to distant ignition source and flash back.

Special protective equipment for fire-fighters: Firefighting activities that may result in potential exposure to high heat, smoke or toxic by-products of combustion should require NIOSH/MSHA-approved pressure-demand self-contained breathing apparatus with full face piece and full protective clothing.

Further information: Isolate area around container involved in fire. Cool tanks, shells, and containers exposed to fire and excessive heat with water. For massive fires the use of unmanned hose holders or monitor nozzles may be advantageous to further minimize personnel exposure. Major fires may require withdrawal, allowing the tank to burn. Large storage tank fires typically require specially trained personnel and equipment to extinguish the fire, often including the need for properly applied fire-fighting foam.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Consider wind direction; stay upwind and uphill, if possible. Evacuate nonessential personnel and remove or secure all ignition sources. Evaluate the direction of product travel, diking, sewers, etc. to contain spill areas. Spills may infiltrate subsurface soil and groundwater; professional assistance may be necessary to determine the extent of subsurface impact.

Environmental precautions: Carefully contain and stop the source of the spill, if safe to do so. Protect bodies of water by diking, absorbents, or absorbent boom, if possible. Do not flush down sewer or drainage systems, unless system is designed and permitted to handle such material. The use of fire-fighting foam may be useful in certain situations to reduce vapors. The proper use of water spray may effectively disperse product vapors or the liquid itself, preventing contact with ignition sources or areas/equipment that require protection.

Methods for cleaning up: Take up with sand or oil absorbing materials. Carefully shovel, scoop or sweep up into a waste container for reclamation or disposal - caution, flammable vapors may accumulate in closed containers. Response and clean-up crews must be properly trained and must utilize proper protective equipment (see Section 8).

SECTION 7: HANDLING AND STORAGE

Handling Precautions:

Protective gloves may be worn. Splash goggles may be worn. Keep away from fire, sparks and heated surfaces. No smoking near areas where material is stored or handled. The product should only be stored and handled in areas with intrinsically safe electrical classification.

Conditions for safe storage, including incompatibilities: Keep away from flame, sparks, excessive temperatures and open flame. Use approved containers. Keep containers closed and clearly labeled. Empty or partially full product containers or vessels may contain explosive vapors. Do not pressurize, cut, heat, weld or expose containers to sources of ignition. Store in a well-ventilated area. The storage area should comply with NFPA 30 "Flammable and Combustible Liquid Code".

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Use adequate ventilation to keep gas and vapor concentrations of this product below occupational exposure and flammability limits, particularly in confined spaces. Use only intrinsically safe electrical equipment approved for use in classified areas. Emergency eye wash capability should be available in the vicinity of any potential splash exposure.

Eye protection: Goggles and face shield as needed to prevent eye and face contact.

Hand protection: Gloves constructed of nitrile, neoprene, or PVC are recommended.

Skin and body protection: Chemical protective clothing recommended based on degree of exposure.

Respiratory protection: A NIOSH/ MSHA-approved air-purifying respirator with organic vapor cartridges or canister may be permissible under certain circumstances where airborne concentrations are or may be expected to exceed exposure limits or for odor or irritation. Protection provided by air-purifying respirators is limited. Refer to OSHA 29 CFR 1910.134, ANSI Z88.2-1992, NIOSH Respirator Decision Logic, and the manufacturer for additional guidance on respiratory protection selection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: 160°F (71.1°C)

Autoignition Temperature: n/a

Flammability Classification: 2

Physical State: Liquid

Appearance and Odor: Not applicable

Odor Threshold: Not applicable

Vapor Pressure: 1.00 mm Hg

Vapor Density (Air=1): 6.1

Formula Weight: Not applicable

Density: Not applicable

Specific Gravity (H₂O=1, at 4 °C): .825

pH: Not applicable

Water Solubility: Not applicable

Other Solubilities: Not applicable

Boiling Point: 540°F 282°C

Freezing/Melting Point: Not applicable

Viscosity: Not applicable

Refractive Index: Not applicable

Surface Tension: Not applicable

% Volatile: Not applicable

Evaporation Rate: Slower than Ethyl ether

SECTION 10: STABILITY AND REACTIVITY

Stability: High Pressure Fluid is stable.

Possibility of hazardous reactions: Can react with strong oxidizing agents, peroxides, acids and alkalis

Conditions to avoid: Avoid high temperatures, open flames, sparks, welding, smoking and other ignition sources. Avoid static charge accumulation and discharge.

Hazardous decomposition products: Ignition and burning can release carbon monoxide, carbon dioxide, non-combusted hydrocarbons (smoke) and, depending on formulation, trace amounts of sulfur dioxide. Diesel exhaust particles may be a lung hazard.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin irritation: Irritating to skin. Repeated or prolonged contact can cause dryness, cracking and dermatitis. Liquid may be absorbed through skin in toxic amounts if large areas of the skin are repeatedly exposed.

Eye irritation Inhalation: May cause eye irritation.

Chronic Exposure: Inhalation of vapors or mist may result in respiratory tract irritation and central nervous system effects including headache, dizziness, loss of balance and coordination, unconsciousness, coma, respiratory failure and death.

Similar products produced skin cancer and systemic toxicity in laboratory animals following repeated applications. The significance of these results to human exposure has not been determined.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Release of this product should be prevented from contaminating soil and water and from entering drainage and sewer systems. U.S.A. regulations require reporting spills of this material that could reach any surface waters.

Environmental Fate: Not Available

Environmental Degradation: Not Available

Soil Absorption/Mobility: Not Applicable

SECTION 13: DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations.

Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: TRANSPORT INFORMATION

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not regulated

Shipping Symbols: Not Applicable

Hazard Class: Not regulated

ID No.: Not regulated

Packing Group: Not Applicable

Label: Not Applicable

Special Provisions (172.102):

Not Applicable

Packaging Authorizations

a) **Exceptions:** Not Applicable

b) **Non-bulk Packaging:** Not Applicable

c) **Bulk Packaging:** Not Applicable

Quantity Limitations

a) **Passenger, Aircraft, or Railcar:** Not Applicable

b) **Cargo Aircraft Only:** Not Applicable

Vessel Stowage Requirements

a) **Vessel Stowage:** Not Applicable

b) **Other:** Not Applicable

Canadian TDG Hazard Class & PIN – Not regulated

SECTION 15: REGULATORY INFORMATION

EPA Regulations: Not applicable

OSHA Regulations: Not applicable

State Regulations: Not applicable

SECTION 16: OTHER INFORMATION

Prepared By: Zuniga, A.

Revision Notes: Not Applicable

Additional Hazard Rating Systems: Not Applicable

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