

MATHESON TRI-GAS, INC. -- PERFLUOROPROPANE --

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Product Identification
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Product ID:PERFLUOROPROPANE
MSDS Date:Jan 24 1989
MSDS Number: EEEMN
Kit Part:=== Responsible Party ===
Company Name:MATHESON TRI-GAS, INC.
Address:959 ROUTE 46 EAST
City:PARSIPPANY
State:NJ
ZIP:07054-0624
Country:US
Info Phone Num:(USA) 973-257-1100, (WHITBY) 905-668-3570, (EDMONTON)
780-471-4036
Chemtrec Ind/Phone:18004249300
=== Contractor Identification ===
Company Name:MATHESON TRI-GAS, INC.
Address:959 ROUTE 46 EAST
Box:City:PARSIPPANY
State:NJ
ZIP:07054-0624
Country:US
Phone:(USA) 973-257-1100, (WHITBY) 905-668-3570, (EDMONTON)
780-471-4036
CAGE:Company Name:MATHESON TRI-GAS, INC.
Address:530 WATSON STREET
Box:City:WHITBY
State:ZIP:L1N 5R9
Country:ONTARIO, CANADA
Phone:(USA) 973-257-1100, (WHITBY) 905-668-3570, (EDMONTON)
780-471-4036
CAGE:

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Composition/Information on Ingredients
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Ingred Name:PERFLUOROPROPANE
CAS:76-19-7
Fraction by Wt: 100%

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Hazards Identification
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Reports of Carcinogenicity:NTP:No IARC:No OSHA:No
Medical Cond Aggravated by Exposure:

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First Aid Measures
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First Aid: INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention. SKIN CONTACT: If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention. EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention. INGESTION: If a large amount is swallowed, get medical attention.

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Fire Fighting Measures
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Flash Point:not flammable
Extinguishing Media:carbon dioxide, regular dry chemical Large fires:
Use regular foam or flood with fine water spray.
Fire Fighting Procedures:Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Use extinguishing

agents appropriate for surrounding fire. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Do not get water directly on material. Reduce vapors with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Consider downwind evacuation if material is leaking.

Unusual Fire/Explosion Hazard:Negligible fire hazard.

===== Accidental Release Measures =====

Spill Release Procedures:Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

Neutralizing Agent:

===== Handling and Storage =====

Handling and Storage Precautions:Store and handle in accordance with all current regulations and standards.

Other Precautions:

===== Exposure Controls/Personal Protection =====

Respiratory Protection:Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use. Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode. Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. For Unknown Concentrations or Immediately Dangerous to Life or Health - Any supplied-air respirator with full facepiece and operated in a pressure-demand or other positive-pressure mode in combination with a separate escape supply. Any self-contained breathing apparatus with a full facepiece.

Ventilation:Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Protective Gloves:Wear insulated gloves.

Eye Protection:Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Other Protective Equipment:For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.

Supplemental Safety and Health

PERFLUOROPROPANE: No occupational exposure limits established.

===== Physical/Chemical Properties =====

Boiling Pt:-35 F (-37 C)
Melt/Freeze Pt:-256 F (-160 C)
Vapor Pres:Not available
Vapor Density:Not available
Spec Gravity:1.29
pH:Not applicable

Evaporation Rate & Reference:Not applicable
Solubility in Water:Not available
Appearance and Odor:PHYSICAL STATE:gas COLOR:colorless PHYSICAL
FORM:liquefied gas ODOR:Not available
Corrosion Rate:

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:Stable at normal temperatures
and pressure.
Stability Condition to Avoid:Protect from physical damage and heat.
Containers may rupture or explode if exposed to heat.
Hazardous Decomposition Products:Thermal decomposition products: acid
halides Thermal decomposition products: acid halides
Conditions to Avoid Polymerization:Will not polymerize.

===== Toxicological Information =====

Toxicological Information:Not available

===== Ecological Information =====

Ecological:Not available

===== Disposal Considerations =====

Waste Disposal Methods:Dispose in accordance with all applicable
regulations.

===== MSDS Transport Information =====

Transport Information:U.S. DOT 49 CFR 172.101: PROPER SHIPPING NAME:
Octafluoropropane or Refrigerant gas R 218 ID NUMBER: UN2424 HAZARD
CLASS OR DIVISION: 2.2 LABELING REQUIREMENTS: Nonflammable gas

===== Regulatory Information =====

SARA Title III Information: SARA TITLE III SECTION 302 EXTREMELY
HAZARDOUS SUBSTANCES (40 CFR 355.30): Not regulated. SARA TITLE
III SECTION 304 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.40): Not
regulated. SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS
CATEGORIES (40 CFR 370.21): ACUTE: No CHRONIC: No FIRE: No
REACTIVE: No SUDDEN RELEASE: Yes SARA TITLE III SECTION 313 (40
CFR 372.65): Not regulated.

Federal Regulatory Information:CERCLA SECTIONS 102a/103 HAZARDOUS
SUBSTANCES (40 CFR 302.4): Not regulated. OSHA PROCESS SAFETY
(29CFR1910.119): Not regulated.

State Regulatory Information: California Proposition 65: Not regulated.

===== Other Information =====

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