

EnSolv[®] Fluoro-HTF

SAFETY DATA SHEET

Preparation Date: February 6, 2024 Rev 1. Replaces April 12, 2022

1. Product and Company Identification

Product Name: *EnSolv[®] Fluoro-HTF*
Product General Use: Heat transfer fluid. **INDUSTRIAL USE ONLY. NOT FOR CONSUMER SALE OR USE.**
Distributor: Enviro Tech International, Inc.
1800 N. 25th Avenue
Melrose Park, IL, 60160
www.envirotechint.com
Emergency Contact: Velocity EHS 24-HR EMERGENCY U.S., Canada, Puerto Rico,
U.S. Virgin Islands (800) 255-3924 INTERNATIONAL CALLS:
+01-813-248-0585
Non-emergency number: +01-708-343-6641 (US)

2. Hazards Identification

Emergency Overview

This product has no flash point and is non-flammable per OSHA and DOT regulations.

Signal Word: Not classified as hazardous per 29 CFR 1910.1200

Hazard Statements: Not applicable

Pictogram: Not applicable

Prevention

P103 Read label before use.

P102 Keep out of reach of children.

P233 Keep container tightly closed.

P273 Avoid release into the environment.

P280 Wash face, hands and any exposed skin thoroughly after handling.

Response

P308 + P313 IF EXPOSED or concerned: Get medical advice/attention

P305 + P351 + P338 + P337 IF IN EYES: Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation occurs, get medical advice/attention

P303 + P361 + P353 + P352 IF ON SKIN: remove contaminated clothing. Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs, get medical advice/attention.

P304 + P340 IF INHALED: Remove individual to fresh air and keep at rest in a position comfortable for breathing.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.

P306 + P361 + P363 IF ON CLOTHING: remove all contaminated clothing immediately. Wash contaminated clothing before reuse.

Storage & Disposal:

P403 Store in a dry place. Store indoors.

P404 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501

Dispose of contents/container in accordance with Federal, state and local regulations.

3. Composition and Ingredient Information

Chemical Name	CAS	Weight %
Heptafluoroisopropyl pentafluoroethyl ketone	756-13-8	100 %

4. First Aid Measures

INHALATION	Necessary first aid is not anticipated
EYE	Necessary first aid is not anticipated
SKIN	Necessary first aid is not anticipated
INGESTION	Necessary first aid is not anticipated

5. Fire Fighting Measures

Flash Point:	None.
Extinguishing Media:	Base on surrounding circumstances. Wear suitable respiratory equipment to protect from harmful gases caused by thermal decomposition.
Unsuitable Extinguishing Media:	No information available.
Hazardous Combustion Products:	Thermal decomposition or combustion may liberate monoxide, carbon dioxide and other gases.
Special Fire Fighting Procedures:	Avoid breathing fire vapors. Keep run-off water out of sewers and water sources. Dike for water control.
Protective Equipment:	Use NIOSH/MSHA approved/equivalent self-contained breathing apparatus in positive pressure mode. Full protective clothing must be worn in case of fire. Use water spray or fog to cool exposed equipment and containers.

6. Accidental Release Measures

Personal Precautions:	Wear protective clothing as described in Section 8 of this Safety Data Sheet. Ventilate enclosed areas. Avoid contact with skin, eyes, and clothing. Avoid breathing mist, vapors, spray.
Environmental Precautions:	Prevent entry into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.
Spill Clean Up Methods:	Provide ventilation and confine spill. Do not allow runoff to sewer or waterways. Dam and absorb spillage with sand, sawdust or other absorbent. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Reference to other Sections:	For personal protection, see Section 8. For waste disposal, see Section 13.

7. Handling and Storage

Handling:	Open container carefully - contents may be under pressure. Avoid skin and eye contact. Use Viton or Silvershield gloves for extended protection. Nitrile, neoprene or butyl gloves offer less protection and should be used for splash protection only. DO NOT use natural rubber or cloth gloves when handling this product. Avoid inhalation of vapors and spray mists. Provide adequate ventilation. Avoid spills or leaks. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.
Storage:	Store in tightly closed original container in a dry, cool and well-ventilated place at less than 100 F. Keep away from strong bases and amines. Keep away from heat, sparks, flame. Keep locked up and out of reach of children. Keep away from food, drink, and animal feeding stuffs. Store in accordance with local regulations.

8. Exposure Controls and Personal Protection

Exposure Limits	150 ppm 8hr TWA Manufacturer recommendation. In all cases, worker exposure to all chemicals, including this product, should be kept as low as possible. No OSHA PEL or ACGIH TLV has been published as of the date of this SDS.
Respiratory Protection	Wear full face mask with NIOSH/MSHA approved/equivalent organic vapor respirator when ventilation is insufficient and where product may be exposed to severe overheating.
Clothing/gloves	Wear nitrile or neoprene gloves when handling this product. DO NOT use natural rubber, cloth or synthetic material gloves when handling this product.
Eye Protection	Wear safety glasses with side shields.
Work/Hygienic Practices	Do not eat, drink or smoke while working with this product. Launder soiled clothes. Provide emergency eye bath and safety shower. Handle in accordance with good industrial hygiene and safety practice.
Engineering Controls	Safety shower, eye wash stations, ventilation systems.

9. Physical Properties

APPEARANCE	Colorless liquid
ODOR	Faint
BOILING POINT	49° C
FLASH POINT	None
VAPOR PRESSURE	40.9 klight. Pa @ 25°C
VAPOR DENSITY	11.6
SPECIFIC GRAVITY	1.60 g/l
WATER SOLUBILITY	Practically insoluble in water

10. Stability and Reactivity

STABILITY	Stable under normal conditions.
CONDITIONS TO AVOID	Avoid light. Avoid heat sources.
INCOMPATIBILITY	Strong bases, amines and alcohols.
HAZARDOUS DECOMPOSITION	Thermal decomposition produces carbon monoxide, carbon dioxide, and hydrogen fluoride.
HAZARDOUS POLYMERIZATION	Will not occur.
REACTIVITY	No information available.

11. Toxicological Information

Oral LD ₅₀ - Rat	> 5,000 mg/kg
Dermal LD ₅₀ - Rat	> 5,000 mg/kg
Inhalation LC ₅₀ - Rat	> 1,227 mg/l
Skin corrosion/irritation	Non-irritating to the skin.
Serious eye damage/eye irritation	No eye irritation.
Sensitization	No sensitization responses were observed.
Germ cell mutagenicity	Not mutagenic.
Carcinogenicity	Not classified by IARC, NTP or OSHA
Reproductive	Not expected to have adverse reproductive effects
Developmental	Not expected to have adverse reproductive effects

12. Ecological Information

Algae/Aquatic plants	10.6 mg/l 96hr Pseudokirchneriella subcapitata
Fish LC ₅₀	>1 070 mg/L 96h Pimephalespromelas
Crustacea EC ₅₀	> 1,080 mg/l 48 hr Daphnia magna
Persistence and degradability	Not readily biodegradable.
Bioaccumulation	BCF = 1.2 - 4.8
Mobility	No information available.
Other adverse effects	No information available.

13. Disposal Considerations

Follow Federal, State and Local governmental regulations. DO NOT flush into sanitary sewer or waterway. Do not reuse empty container.

14. Transportation Information

HAZARDOUS MATERIAL DESCRIPTION	Not regulated for transportation.
DOT DESCRIPTION	Non Hazardous Industrial Solvent

The above transportation information is valid as of the date of publication of this SDS. ETI recommends checking new transportation regulations regularly.

15. Regulatory Information

USMCA	Does not comply
US TCSA	Listed and Active
US RCRA	Not regulated
US HAP	Not regulated

US NESHAP	Not regulated
VOC	1,600 g - 100%
GWP	0.1
SARA 313	Not subject to reporting
SARA 311/312	No information available
CERCLA	Not subject to reporting

International

CANADA DSL	Listed
CANADA	Canadian Hazardous Products Regulation - Not Classified
EU EINECS/ELINCS	Listed. May be restricted for certain applications.
Australia AICS	Listed
China	In compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply.
Japan ENCS	Listed. May be restricted for certain applications.
Korea KECL	Listed. Certain restrictions may apply.
New Zealand NZIoC	Unknown
Philippine PICCS	Listed. May be restricted for certain applications.
Taiwan TCSI	Unknown

16. Other Information

Each user of this product should study this SDS carefully and consult appropriate expertise as necessary to become aware of and understand the data contained in this SDS and any hazards that may be associated with this product. The information provided in this Safety Data Sheet relates only to the specific material designated herein. The user is responsible for determining the conditions of safe use of this product and for complying with all Federal, State and Local governmental laws and regulations concerning its use. The information contained herein is accurate to the best of our knowledge. Enviro Tech International, Inc. makes no warranty, express or implied, including the warranty of merchantability and fitness for a particular purpose, and assumes no liability or responsibility for the accuracy, completeness, timeliness or usefulness of this information. Enviro Tech International, Inc assumes no liability for any damages incurred, whether directly or indirectly, as a result of any errors, omissions or discrepancies in this information. Enviro Tech International, Inc. assumes no liability for reliance on this data and assumes no liability for damages related to the use or misuse of this product in your process or in combination with other substances.

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