

EnSolv® Fluoro LVO

Preparation Date: March 28, 2022

1. Product and Company Identification

Product Name: **EnSolv® Fluoro LVO**
Identified Uses: Specialty fluid. **FOR INDUSTRIAL USE ONLY. NOT FOR CONSUMER USE.**
Supplier: Enviro Tech International, Inc.
1800 N. 25th Ave.
Melrose Park, IL 60160 708-343-6641
www.envirotechint.com
Contact Person: sales@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. HAZARD IDENTIFICATION

Signal Word: Warning



Classification

Skin irritation Category 2
Eye irritation Category 2

Hazard Statements

H305 May be harmful if swallowed and enters airways
H315 Causes skin irritation
H320 Causes eye irritation
H332 Harmful if inhaled
H336 May cause drowsiness or dizziness.

General & Prevention Precautionary Statements

P102 Keep out of reach of children
P103 Read label before use
P202 Do not handle until all safety precautions have been read and understood
P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233 Keep container tightly closed
P234 Keep only in original container
P243 Take precautionary measures against static discharge
P260 Do not breathe mist/vapors
P262 Do not get in eyes, on skin, or on clothing
P270 Do not eat, drink or smoke when using this product
P271 Use in a well-ventilated area
P280 Wear protective gloves/eye protection/face protection
P281 Use personal protective equipment as required.
P285 In case of inadequate ventilation wear respiratory protection

Precautionary Statements

P308 + P314

IF EXPOSED: Get medical advice/attention if you feel concerned.

P305 + P351 + P338 + P337 + P313

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

P302 + P361 + P352 + P353 + P363

IF ON SKIN: remove immediately all contaminated clothing. Wash with soap and water. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

P333 + P313

P304 + P340 + P342 + P311

IF INHALED: Remove individual to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P301 + P330 + P331

IF SWALLOWED: rinse mouth. Do NOT induce vomiting (aspiration hazard).

P306 + P361 + P363

IF ON CLOTHING: Remove immediately all contaminated clothing. Wash contaminated clothing.

Storage & Disposal:

P403 + P233 + P235 + P404

Store in a well-ventilated place. Keep container tightly closed. Keep Cool. Do not store in direct sunlight.

P501

Dispose of contents/containers in accordance with all local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name		% by weight
Ethyl decanoate	CAS: 110-38-3	1-4%
Proprietary Fluorinated Solvent		>90%
Name withheld as Trade Secret - 920.1200(i)(1)		

4. FIRST AID MEASURES

Inhalation:	Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. If breathing is difficult, give oxygen. Get medical attention if any discomfort continues.
Ingestion:	Compound is not known to be hazardous by ingestion. Do not induce vomiting due to aspiration hazards. Never give liquid to an unconscious person. Get medical attention if symptoms develop.
Skin Contact:	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye Contact:	Immediately flush eyes with plenty of water while lifting the eye lids. Remove contact lenses, if worn. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

5. FIRE FIGHTING MEASURES

Flash point (° C): None - ASTM 56

Extinguishing Media:	Use extinguishing measures appropriate to local circumstances and surroundings. Dry chemical, carbon dioxide, water spray mist, foam.
Unsuitable extinguishing media:	None
Hazardous combustion products:	Hydrogen fluoride, carbon monoxide, carbon dioxide
Special Fire Fighting Procedures:	Avoid breathing fire vapors. Keep run-off water out of sewers and water sources. Dike for water control.
Protective Equipment:	NIOSH approved self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear protective clothing as described in Section 8 of this Safety Data Sheet.
Environmental Precautions:	Do not discharge 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. 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:	Avoid spilling, skin and eye contact. Avoid inhalation of vapors and spray mists. Use with sufficient ventilation. Do not allow contact with open flame.
Storage:	Store in tightly closed original container in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Proprietary Fluorinated Solvent Ethyl decanoate	50 ppm 8 hr TWA recommended CAS: 110-38-3 None published
Engineering Controls:	Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Vapors are heavier than air. Use with adequate ventilation to prevent vapor buildup in low lying areas.
Protective	
Process Conditions:	Provide eyewash, quick drench.
Respiratory Equipment:	Wear safety glasses with side shields or NIOSH approved respirator where appropriate. Self-contained breathing apparatus is required if a large spill occurs.
Hand Protection:	Always use Viton or neoprene gloves for long term protection. Nitrile gloves are acceptable only for splash protection.
Eye Protection:	Wear NIOSH or EN 166 approved safety/chemical tight goggles. Full face mask recommended.

Hygiene Measures:	When using do not eat, drink or smoke. Wear apron or protective clothing in case of splashes.
Skin Protection:	Handle with gloves. Nitrile gloves with minimum layer thickness of 0.4 mm and break through time of 480 min recommended. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves after use in accordance with applicable laws. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Color :	Liquid, Colorless.
Relative Density:	1.47 @ 25° C
Flash Point:	None. ASTM 56

10. STABILITY AND REACTIVITY

Stability:	Stable under normal temperature conditions and recommended use.
Conditions to Avoid:	Avoid flames and other heat sources. Will decompose when exposed to extreme conditions of heat at elevated temperatures.
Materials to Avoid:	Strong oxidizing substances. Incompatible with alkali or alkaline earth metals-powdered Al, Zn, Be, etc. Avoid acids, bases and reducing agents.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate Hydrogen fluoride (HF) and/or carbon oxides.

11. TOXICOLOGICAL INFORMATION

Mixture

Carcinogenicity:	No component of this product is listed as a carcinogen by IARC, NTP or OSHA.
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Proprietary Fluorinated Compound

Acute Toxicity Oral LD50 (rat):	>2,000mg/kg
Inhalation LC ₅₀ (rat):	>3,010 ppm
Dermal LD ₅₀ (rat):	>2,000mg/kg
Skin and eye irritation:	Slight irritation to eye and mucous membranes
Skin irritation (rabbit):	Mild Irritant
Eye irritation (rabbit):	Slight
Sensitization: Skin (rat):	None
Genetic Studies:	Ames Assay: Negative (OECD 471 & 472) Chromosomal Aberration Test: Negative (CHL Cell) (OECD 473)
Repeated Dose Oral Toxicity (28 Day):	NOEL 1,000 mg/kg/d
Repeated Dose Inhalation Toxicity (5 day):	NOEL 1,800 ppm Rats exposed to 2500 or 5000 ppm for 6 hours per day for 5 days showed convulsions.

Repeated Dose Inhalation Toxicity (90 day): NOEL 1,000 ppm Rats exposed to 1,000 ppm for 6 hours per day, 5 days per week for 90 days showed no adverse effects.

Ethylene deconate

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Skin corrosion/irritation: Rabbit - Mild skin irritation - 24 hr

12. ECOLOGICAL INFORMATION

Proprietary Fluorinated Compound

Biodegradability: Not biodegraded (OECD 301 C)
Bioaccumulation: N/D
Activated Sludge Study: >100mg/L (OECD 209)
Fish Toxicity: LC₅₀ (96 hr) (Carp) >76 mg/L
Other Information: Algal growth inhibition: ErC₅₀>213mg/L EbC₅₀ >213mg/L
Mobility inhibition: Daphnia magna - 48hr-EC₅₀ >94mg/L

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of waste and residues in accordance with federal, state and local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff into sewer, waterway or ground. Do not reuse containers.

14. TRANSPORTATION INFORMATION

General: This product is not hazardous for transportation per USA DOT regulations.
Proper Shipping Name: Specialty Fluid. Industrial Use Only. Not for Consumer sale or use.

The above transportation information is valid as of the date of publication of this SDS. Given that regulatory changes are made on an ongoing basis, ETI recommends checking new transportation regulations regularly.

15. REGULATORY INFORMATION:

Proprietary Fluorinated Solvent

USA SARA 313/312: Not subject to the reporting
USA SARA 302: Not subject to the reporting
USA Clean Water Act: Not regulated
USA CERCLA: Not regulated
USA TSCA: Listed in Inventory. Active. Subject to SNUR - Requirements as specified in § 721.80 (f), (j) (cleaning electronic components; precision cleaning; de-watering of electronic components and other parts following aqueous cleaning; and carrier/lubricant coating for hard disk drives and other precision parts) 40 CFR 721.10549. Subject to export reporting.
CALIFORNIA PROP 65: Not Listed
CANADA DSL: Listed in Inventory
REACH: Listed in Inventory
EU EINECS/ELINCS: Listed in Inventory
EU ENCS: Listed in Inventory

EU F-GAS:	Subject to Reporting
China IECSC:	Listed in Inventory
Korea KECI:	Listed in Inventory
Philippines PICCS:	Listed in Inventory
Australia AICS:	Does not comply

Ethyl decanoate

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USA CERCLA:	Not regulated
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CALIFORNIA PROP 65:	Not Listed
Right to Know	Pennsylvania; Massachusetts; New Jersey
CANADA DSL:	Listed in Inventory
REACH:	Listed in Inventory
EU EINECS/ELINCS:	Listed in Inventory
EU ENCS:	Listed in Inventory
EU F-GAS:	N/A
China IECSC:	Listed in Inventory
Korea KECI:	Listed in Inventory
Philippines PICCS:	Listed in Inventory
Australia AICS:	Does not comply

16. OTHER INFORMATION

Only trained personnel should use this material. Since empty containers retain product residue, follow label warnings, even after container is emptied. 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. 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.

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