

EnSolv Fluoro IPA

Preparation Date: February 15, 2023

1. Product and Company Identification

Product Name: *EnSolv Fluoro IPA*
Identified Uses: Specialty Fluorinated Solvent. **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

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
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

Classification

Skin irritation Category 2
Eye irritation Category 2

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. Not known to be hazardous by ingestion, but consult a physician. Do NOT induce vomiting as aspiration hazard is considered a greater hazard than swallowing.

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

Proprietary Fluorinated Solvent

> 95%

Specific component is a Trade Secret - 1920.1200(i)(1)

Isopropanol

CAS 67-63-0

< 5%

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.

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.

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 (See Section 9)
Extinguishing Media:	Use extinguishing measures appropriate to local circumstances and surroundings such as dry chemical, carbon dioxide, water spray mist, foam.
Unsuitable extinguishing media:	None
Hazardous combustion products:	Containers may rupture under high heat conditions. Hydrogen fluoride, carbon monoxide and 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:	Self-contained breathing apparatus (SCBA) 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. Ensure adequate ventilation.
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. Vapor reduces available oxygen for breathing and is heavier than air.
Storage:	Store in tightly closed original container in a dry, cool and well-ventilated place at room temperature. Avoid storing in direct sunlight. Do not store near heat, sparks or flame.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

Exposure Limits:	Proprietary Fluorinated Solvent - In all cases, worker exposure to all chemicals, including this product, should be kept as low as possible. No OSHA PEL has been published for this product. 50 ppm workplace exposure limit per manufacturers' recommendation (8 hr TWA)
	Isopropanol CAS 67-63-0 OSHA PEL 400 ppm OSHA STEL 500 ppm ACGIH TLV 200 ppm
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.

Process Conditions:	Provide eyewash, quick drench.
Respiratory Equipment:	Suitable respiratory protection should be provided. Self-contained breathing apparatus is required if a large spill occurs.
Hand Protection:	Always use Viton or other impermeable gloves for long term protection. Nitrile gloves are acceptable only for splash protection.
Eye Protection:	Wear approved safety/chemical tight goggles. Full face mask recommended. Use proper protective clothing.
Hygiene Measures:	When using do not eat, drink or smoke. Wear apron or protective clothing in case of splashes.
Skin Protection:	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 :	Clear & Bright.
Boiling point:	54° C
Relative Density:	1.426 g/mL @ 25° C
Viscosity:	0.44 cPs @ 25° C
Flash Point:	None. ASTM 56
LEL/UEL:	NONE (reported by manufacturer)
Vapor Pressure	31 kPa @ 25° C

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 elevated temperatures.
Materials to Avoid:	Strong oxidizing substances. Incompatible with alkali or alkaline earth metals-powdered Al, Zn, Be, etc.
Hazardous Decomposition Products:	Thermal decomposition or combustion may liberate Hydrogen fluoride, carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Proprietary Fluorinated Compound

Acute Toxicity	
Oral LD50 (rat):	>2,000 mg/kg
Inhalation LC ₅₀ (rat):	>24.8mg/L (3,010 ppm)
Dermal LD ₅₀ (rat):	>2,000mg/kg
Skin and eye irritation:	Slight irritation to eye and mucous membranes
Skin irritation (rabbit):	None
Eye irritation (rabbit):	Slight
Sensitization: Skin (rat):	None
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 1,000 ppm
 Repeated Dose Inhalation Toxicity (5 day): NOEL 1,800 ppm Rats exposed to 2,500 or 5,000 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 hrs/day, 5 days/wk - 90 days. No adverse effects.
 Carcinogenicity: IARC: Not Listed. NTP: Not Listed. OSHA: Not Listed.

Isopropanol

Acute oral toxicity
 LD₅₀ 3,600 mg/kg 4 hr Mouse
 Acute dermal toxicity
 LD₅₀ 12,800 mg/kg 4 hr Rabbit
 Acute toxicity of the vapor
 LC₅₀ 16,000 8 hrs Rat
 Developmental Toxicity Possible reproductive & developmental system/toxin/female
 May cause damage to Kidneys, liver, skin, central nervous system (CNS).
 Chronic Effects May cause adverse reproductive/teratogenic effects (fertility, fetotoxicity, developmental abnormalities (developmental toxin)) based on animal studies. Detected in maternal milk in human.

Acute Potential Health Effects

Skin May cause mild skin irritation, and sensitization.
 Eyes Can cause eye irritation
 Inhalation Small amounts are not likely to cause harmful effects. Large amounts can irritate the respiratory system and mucous membranes and affect behavior (CNS depression - headache, dizziness, drowsiness, stupor, unconsciousness, coma and possible death)
 Ingestion Swallowing small amounts not likely to cause harmful effects. Swallowing large amounts may cause gastrointestinal tract irritation with nausea, vomiting and diarrhea, abdominal pain.
 Carcinogenicity IARC: Group 3 NTP: No OSHA: No

12. ECOLOGICAL INFORMATION

Proprietary Fluorinated Compound

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

Isopropanol

Toxicity to fish flow-through test LC₅₀ 9,640 mg/l - 96 hr - Pimephales promelas (fathead minnow)
 Toxicity to daphnia/aquatic invertebrates EC₅₀ - Daphnia magna (Water flea) - 13,299 mg/l - 48 h

Toxicity to algae	IC ₅₀ - Desmodesmus subspicatus (green algae) - > 1,000 mg/l - 72 hr
Toxicity to bacteria	EC ₅ - Pseudomonas putida - 1,050 mg/l - 16 h
Biodegradability	Readily biodegradable.
Theoretical oxygen demand	2,400 mg/g
Bio accumulation	No bioaccumulation is to be expected (log Pow <= 4).
Mobility in soil	No data available

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. For destruction, use high-temperature incinerator designed to burn fluorine compounds. 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 Solvent. Industrial Use Only. Not for Consumer 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:

EnSolv Fluoro IPA - Mixture

USEPA SNAP - Mixture: Compounds approved.

VOC - Mixture: 71.3 g/L

Proprietary Fluorinated Compound

USA TSCA: Listed in Inventory. Active. Subject to SNUR - Requirements as specified in § 721.80 (f), (j) (cleaning electronic components; precision cleaning; dewatering 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.

USA SARA 313/312: Not subject to the reporting.

USA SARA 302: Not subject to the reporting.

USA SARA 304: N/A

USA CERCLA: Not regulated.

USA RCRA: N/A

USEPA SNAP: Acceptable: Metals Cleaning & Precision Cleaning

GLOBAL WARMING (GWP): 580

California Prop 65: Not Listed.

ROHS₃: Complies.

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.

Isopropanol

USA TSCA	Listed in Inventory. Active.
USA SARA 313/312	Subject to reporting - Isopropanol CAS 67-63-0 < 5 % weight
USA SARA 302	Not subject to the reporting.
USA SARA 304	N/A
USA CERCLA	Not regulated.
USA RCRA	N/A
USEPA SNAP	Acceptable
USA VOC Exempt	No
California Prop 65	Not Listed
US Clean Water Act	Not Listed
Right to Know	Rhode Island, Massachusetts, New Jersey, Pennsylvania, Florida, Minnesota, Tennessee. Connecticut hazardous material survey. Illinois toxic substance disclosure to employee act.

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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