



6 Powder Horn Dr.
Warren, NJ 07059, USA
Telephone: +1 732-764-0900

SAFETY DATA SHEET

1. Product Identification

Product Name CycloSolv® PFC95
Chemical Name perfluoro-*N*-isopropylmorpholine
Provider Chromis Technologies
Physical Address 6 Powder Horn Dr. Warren, NJ 07059, USA
Telephone +1 732-764-0900

2. Hazard Identification

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. Composition, Information or Ingredients

Component	CAS No.	%
hydrofluoric acid, reaction products with 4-(1-methylethyl)morpholine)	1093615-61-2	>95

4. First Aid Measures

Inhalation:

Remove to fresh air. Get medical attention immediately if symptoms occur.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

No need for first aid is anticipated.

5. Fire-Fighting Measures

Extinguishing media:

Carbon dioxide, dry chemical powder, alcohol or polymer foam.

Special fire fighting procedures:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eye

Unusual fire and explosion hazards

/ decomposition of product: Emits toxic fumes (HF) under fire conditions.

6. Accidental Release Measures

Steps to be taken if material is spilled

or otherwise release into the environment: No special environmental precautions required. Clean up promptly and collect spilled material with an absorbent. Collect in suitable container for disposal.

7. Handling and Storage

Protect from contamination. When opening containers, avoid breathing vapors that may be emanating. Provide appropriate exhaust ventilation at dryers, machinery and at places where dust or volatiles can be generated. Keep container tightly closed.

8. Exposure Controls and Personal Protection

Wear protective safety goggles.
Wear chemical-resistant gloves.
Wear protective clothing and chemical resistant boots.
Ensure ventilation during use.
After contact with skin, wash immediately.

9. Physical and Chemical Properties

General Physical Form	Liquid
Odor, Color, Grade	Colorless, odorless liquid.
Odor threshold	No Data Available
pH	Not Applicable
Melting point	Not Applicable
Boiling Point	95 °C @ 760 mmHg
Flash Point	No flash point
Evaporation rate	> 1 [Ref Std:BUOAC=1]
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	None detected
Flammable Limits(UEL)	None detected
Vapor Pressure	50.6 mmHg [@ 20 °C]
Vapor Density	14 [Ref Std:AIR=1]
Density	1.8 g/mL
Specific Gravity	1.8 [Ref Std:WATER=1]
Solubility in Water	Insoluble in water
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	Not Applicable
Viscosity	0.8 centistoke @ 25 °C
Molecular weight	399 g/mol
Volatile Organic Compounds	[Details:Exempt]
Percent volatile	100 %

10. Stability and Reactivity

Conditions to avoid:	Do not expose to alkali metals (Na, K, Li)
Hazardous Decomposition Products:	Nitrogen oxides (NO _x), carbon monoxide (CO), hydrogen fluoride (HF)
Hazardous Polymerization:	Will not occur
Hazardous Reactions:	None under normal processing

11. Toxicological Information

Acute inhalation toxicity:	No information available
Dermal:	No information available
Skin corrosion/irritation:	No information available
Sensitization:	No information available
Repeated dose toxicity:	No information available
Mutagenicity/carcinogenicity:	No information available

12. Ecological Information

Ecotoxicity:	No information available. Do not empty into drains.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available

13. Disposal Considerations

Absent other actions demanded by federal or local regulations – dissolve or mix the material with a combustible solvent and burn in a regulated, chemical incinerator equipped with after-burner and scrubber. Observe all federal, state, and local laws.

14. Transport Information

US DEPARTMENT OF TRANSPORTATION (DOT)

Hazardous Materials:	N/A
Hazardous Materials Description and Proper Shipping Name:	N/A
Hazard Class or Division:	N/A
Identification Number:	Not regulated
Packing Group:	N/A

Label(s) required:	Not classified
UN Number:	Not regulated
IMDG Status:	Not restricted
Marine Pollutant:	No
ICAO/IATA Status:	Not restricted

15. Regulatory Information

OSHA STATUS:	N/A
TSCA STATUS:	Not Listed

16. Other Information

The information contained herein is accurate to the best of our knowledge, but is not meant to be complete and is included only as a guide. The end user is responsible for any damage resulting from handling or from contact with this product.