



# CHROMIS TECHNOLOGIES

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## SAFETY DATA SHEET

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### 1. Product Identification

<b>Name</b>	CyclaSolv® PFC180, CyclaSolv® PFC180-STD
<b>CAS Registry Number</b>	86508-42-1
<b>Recommended Use</b>	Industrial use
<b>Company</b>	Chromis Technologies
<b>Physical Address</b>	30 Technology Drive, Suite 1J, Warren, NJ 07059, USA
<b>Telephone</b>	+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

<b>Name</b>	Perfluoro Compounds, C5-18	100%
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### 4. First Aid Measures

<b>Inhalation</b>	No need for first aid is anticipated.
<b>Skin Contact</b>	Wash with soap and water. If signs/symptoms develop, get medical attention.
<b>Eye Contact</b>	Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.
<b>If Swallowed</b>	No need for first aid is anticipated.

### 5. Fire-Fighting Measures

<b>Extinguishing media</b>	Use a fire-fighting agent suitable for the surrounding fire.
<b>Special Hazards</b>	Exposure to extreme heat can give rise to thermal decomposition.
<b>Special fire fighting Procedures</b>	Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms waist and legs, face mask and protective covering for exposed areas of the head.
<b>Unusual fire and explosion hazards / decomposition of product</b>	Emits toxic fumes (Carbon monoxide, Carbon dioxide, HF) during combustion.

## 6. Accidental Release Measures

### Precaution(s)

Ventilate the area with fresh air  
Avoid release to the environment.

### Steps to be taken if material is spilled or otherwise release into the environment

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible.

Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## 7. Handling and Storage

Do not breathe thermal decomposition products. For industrial/occupational use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products. Store away from heat.

## 8. Exposure Controls and Personal Protection

### Exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

### Engineering controls

For situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

## 9. Physical and Chemical Properties

### Appearance

Liquid

### Color

Colorless

### Odor

Odorless

### Odor threshold

No Data Available

### pH

Not Applicable

### Melting point

Not Applicable

### Boiling Point

165 - 185 °C

### 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

1.3 mmHg [@ 20 °C]

<b>Vapor Density</b>	23.3 [@ 20 °C] [Ref Std: AIR=1]
<b>Density</b>	1.9 g/ml
<b>Specific Gravity</b>	1.9 [Ref Std: WATER=1]
<b>Solubility in Water</b>	Nil
<b>Solubility- non-water</b>	No Data Available
<b>Partition coefficient: n-octanol/ water</b>	No Data Available
<b>Autoignition temperature</b>	No Data Available
<b>Decomposition temperature</b>	Not Applicable
<b>Viscosity</b>	2.8 centistoke [@ 20 °C]
<b>Molecular weight</b>	No Data Available
<b>Volatile Organic Compounds</b>	[Details: Exempt]
<b>Percent volatile</b>	100 %
<b>VOC Less H2O &amp; Exempt Solvents</b>	[Details: Exempt]

## 10. Stability and Reactivity

**Conditions to avoid** Do not overheat. Hazardous decomposition products may be produced when the recommended processing temperatures or times are exceeded. Do not expose to alkali metals (Na, K, Li).

**Hazardous Decomposition Products** Hydrogen Fluoride (At elevated temperatures - greater than 200 °C)  
Perfluoroisobutylene (PFIB) (At elevated temperatures - greater than 200 °C)

## 11. Toxicological Information (to be checked against AGC CT Solv 180 SDS)

<b>Acute inhalation toxicity:</b>	Oral LD50 rat > 10 g/kg (Perfluoro Compounds, C5-18)
<b>Dermal:</b>	n/d
<b>Skin corrosion/irritation:</b>	n/d
<b>Sensitization:</b>	n/d
<b>Repeated dose toxicity:</b>	n/d
<b>Mutagenicity/carcinogenicity:</b>	n/d
<b>NTP:</b>	n/e
<b>IARC:</b>	n/e
<b>OSHA:</b>	n/e
<b>Cytogenetic test:</b>	n/d

## 12. Ecological Information (to be checked against AGC CT Solv 180 SDS)

<b>Toxicity:</b>	LC50, 48 h, fish (Himedaka) > 500 mg/L (Perfluoro Compounds, C5-18) LC50, 96 h, fish (Fathead Minnow) > 1,000 mg/L (Perfluoro Compounds, C5-18)
<b>Persistence and degradability:</b>	BOD = 0-10%

**Bioaccumulative potential:** bioconcentration factor 19-34 L/kg (0.01 mg/L)

**13. Disposal Considerations**

Dispose of contents/container in accordance with the local/regional/national/international regulations. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials. Empty and clean product containers may be disposed as nonhazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

**14. Transport Information**

**US DEPARTMENT OF TRANSPORTATION (DOT)**

<b>Hazardous Materials:</b>	N/A
<b>Hazardous Materials Description and Proper Shipping Name:</b>	N/A
<b>Hazard Class or Division:</b>	N/A
<b>Identification Number:</b>	Not regulated
<b>Packing Group:</b>	N/A
<b>Label(s) required:</b>	Not classified
<b>UN Number:</b>	Not regulated
<b>IMDG Status:</b>	Not restricted
<b>Marine Pollutant:</b>	No
<b>ICAO/IATA Status:</b>	Not restricted

**15. Regulatory Information**

Adheres to all Federal, State, and local regulations.

<b>OSHA STATUS:</b>	N/A
<b>TSCA STATUS:</b>	Listed on the TSCA inventory

**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.

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