

Safety Data Sheet

Section 1: Product & Company Identification

Product Name:	FCCP
Product #:	C-1616
Synonyms:	Carbonyl cyanide 4-(trifluoromethoxy)phenylhydrazone; Mesoxalonitrile 4-trifluoromethoxyphenylhydrazone
Supplier:	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
Emergency Tele#:	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
FCCP	370-86-5	206-730-8	

Section 3: Hazards Identification

Symbols	
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HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard

NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard

Section 4: First Aid Measures

General Overview:	First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
Inhalation:	After inhalation: fresh air. Call in physician.

Skin:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.
Eyes:	After eye contact: rinse out with plenty of water. Immediately call an ophthalmologist. Remove contact lenses.
Ingestion:	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.
	See section 11 for more detailed information on health effects & symptoms.

SECTION 5: Fire Fighting Measures

Flammability of the product:	Combustible
Extinguishing Media:	Water, foam, carbon dioxide (CO ₂), dry powder
Hazardous thermal (de)composition products:	Carbon oxides, Nitrogen oxides, Hydrogen fluoride. Development of hazardous combustion gases or vapors possible in the event of fire.
Special Fire Fighting Procedures:	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
Flash Point:	No data available

Section 6: Accidental Release Measures

Personal Precautions:	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see Section 8.
Environmental Precautions:	Do not let product enter drains.
Methods for Clean-up:	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

SECTION 7: Handling & Storage

Storage:	Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Recommended storage temperature: 2 - 8°C Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2/ very toxic hazardous materials
Handling:	For precautions see Section 2

SECTION 8: Exposure controls / Personal Protection

<p>Respiratory Protection:</p>	 <p>Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Required when dusts are generated.</p> <p>Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.</p>
<p>Skin and Body:</p>	  <p>Handle with impervious gloves and protective clothing/lab coat.</p>
<p>Eyes:</p>	 <p>Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles</p>
<p>Ventilation/Engineering Measures:</p>	<p>Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.</p>
<p>Hygiene:</p>	<p>The usual precautionary measures for handling chemicals should be followed.</p>
<p>Other:</p>	<p>Contains no substances with occupational exposure limit values.</p>

SECTION 9: Physical and Chemical Properties

Appearance & Odor:	Dark yellow powder
Formula	C ₁₀ H ₅ F ₃ N ₄ O
Molecular Wt.	254.2
Melting Pt.	174 - 175°C (345 - 347°C)
Boiling Pt.	No data available
Density:	No data available
Vapor Pressure:	No data available
Evaporation Rate:	No data available
Vapor Density:	No data available
Solubility:	DMSO
Flash Point:	No data available
Autoignition Temp:	No data available

SECTION 10: Stability and Reactivity

Stability:	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Hazardous decomposition products:	No data available
Materials to Avoid:	Strong acids, strong bases, strong oxidizing agents, strong reducing agents
Conditions to avoid:	In the event of fire: see Section 5

SECTION 11: Toxicological Information

RTECS#:	FG5775000
ACUTE Toxicity:	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
CHRONIC Toxicity:	No data available
Chronic Exposure: Carcinogen: Mutagen: Teratogen: Reproductive:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP.

	<p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA.</p> <p>EPA: No classification on carcinogenic data is available from EPA</p>
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SECTION 12: Ecological Information

Ecotoxicity:	No data available
Mobility:	No data available
Persistence and degradability:	No data available
Bioaccumulative potential:	No data available
Other adverse effects:	No data available
Corrosivity Characteristic:	No data available
General Notes:	No data available

SECTION 13: Disposal Considerations

Residue Waste or Unused product:	Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste.
Contaminated Packaging:	Handle uncleaned containers like the product itself.

SECTION 14: Transportation Information

UN ID#:	2811
DOT regulations:	<p>UN Number: 2811 Class: 6.1 Packing Group: II Proper Shipping Name: Toxic solids, organic, n.o.s. ([[4-(Trifluoromethoxy)phenyl]hydrazono]malononitrile)</p> <p>Reportable Quantity (RQ):</p> <ul style="list-style-type: none"> Poison Inhalation Hazard: No
IMDG/IMO (SEA):	<p>UN Number: 2811 Class: 6.1 Packing Group: II EMS-No: F-A, S-A Proper Shipping Name: TOXIC SOLID, ORGANIC, N.O.S. ([[4-(Trifluoromethoxy)phenyl]hydrazono]malononitrile)</p>
IATA/DGR (AIR):	<p>UN Number: 2811 Class: 6.1</p>

	Packing Group: II Proper Shipping Name: Toxic solid, organic, n.o.s. ([[4-(Trifluoromethoxy)phenyl]hydrazono]malononitrile)
Special Provisions:	No data available

SECTION 15: Regulatory Information

Health Phrases:	Danger! H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H413 May cause long lasting harmful effects to aquatic life.
Risk Phrases:	P260 Do not breathe dusts or mists. P264 Wash skin thoroughly after handling. P270 Do not eat, drink, or smoke when using this product. P272 Contaminated work clothing must not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/face protection.
Safety Phrases:	P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P405 Store locked up. P501 Dispose of contents/ container to an approved waste disposal plant.
EU Regulations:	N/A
US Regulations:	TSCA: Not listed California Proposition 65: No products were found New Jersey State Right to Know: Listed Pennsylvania State Right to Know: Listed
U.S. Federal Regulations:	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: Acute Health Hazard SARA 313 toxic chemicals notification and release reporting: No products were found.

	<p>Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Acute toxicity - oral (Cat. 4), Skin corrosion (Cat. 1B), Serious eye damage (Cat. 1), Skin sensitization (Cat. 1), Long-term/chronic aquatic hazard (Cat. 4)</p>
WHMIS (Canada):	N/A

SECTION 16: Other Information

LIABILITY STATEMENT: *The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. AG Scientific shall not be held liable for any damages resulting from handling or from contact with the above product. AG Scientific products are for research purposes only. Not for human use or consumption.*