


Section 1: Identification

Common Name/Trade Name	FLUOROURACIL USP	
Supplier Information	Letco Medical, LLC 1316 Commerce Drive NW Decatur, AL 35601 1 (800) 239-5288 +1 (734) 843-4693	IN CASE OF EMERGENCY: Chemtrec 1 (800) 424-9300 (24 hours)
Product Synonym(s)	N/A	
Relevant Use(s) of Product	Manufacture or Compounding of Substances	

Section 2: Hazards Identification

Classification of Substance or Mixture	Acute tox. 3, Skin irrit. 2, Muta. 1, Carc. 1, Repr. 1, Aquatic Acute 1, Aquatic Chronic 4	
Signal Word	Danger	
Hazard Statement(s)	H301 H315 H340 H350 H360 H400 H413	Toxic if swallowed Causes skin irritation May cause genetic defects May cause cancer May damage fertility or the unborn child Very toxic to aquatic life May cause long lasting harmful effects to aquatic life
Pictogram(s)		
Precautionary Statement(s)	P201 P202 P264 P270 P273 P280 P281 P301+P310 P302+P352 P308+P313 P330 P332+P313 P362 P391 P405 P501	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. IF SWALLOWED Immediately call a POISON CENTER or doctor/physician. IF ON SKIN Wash with soap and water. IF exposed or concerned Get medical advice/attention. Rinse mouth. If skin irritation occurs Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage. Store locked up. Dispose of contents/container to an approved waste disposal plant.
Hazards Not Otherwise Classified	No data available	
Ingredient(s) with Unknown Toxicity	No data available	

Section 3: Composition/Information on Ingredients

Chemical Name	Fluorouracil
Common Name	Fluorouracil
CAS Number	51-21-8
Impurities and/or Stabilizing Additives	No data available

Section 4: First Aid Measures

General Advice	In case of reaction described in hazards identification or other severe, immediate or persisting symptoms seek medical advice and call the nearest poison center. Show the label and this safety data sheet.
If Inhaled	Assure fresh air breathing. Rest. If you feel unwell, seek medical advice.
In Case of Skin Contact	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
In Case of Eye Contact	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking, tears or redness persist.
If Swallowed	Rinse mouth. If swallowed, seek medical advice immediately and show this container or label.
Most Important Symptoms and Effects	No data available

Section 5: Fire Fighting Measures

Suitable Extinguishing Media	Suitable extinguishing media : Water spray. Carbon dioxide. Dry powder. Unsuitable extinguishing media: Do not use a heavy water stream.
Special Hazards Arising From the Substance/Mixture	Incomplete combustion will generate poisonous carbon monoxide, carbon dioxide and other toxic gases.
Special PPE and/or Precautions for Firefighters	Surrounding fires : Use water spray or fog for cooling exposed containers. Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection. Avoid (reject) fire-fighting water to enter environment. Prevent entry to sewers and public waters.

Section 6: Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Remove ignition sources. Evacuate area. Spill should be handled by trained cleaning personnel properly equipped with respiratory and eye protection.
Methods and Materials Used for Containment	Clean spill promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation
Cleanup Procedures	Clean spill promptly. To clean the floor and all objects contaminated by this material, use: sodium hypochlorite solution. Ensure adequate ventilation. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

Section 7: Handling and Storage

Precautions for Safe Handling	Avoid all unnecessary exposure. Ensure prompt removal from eyes, skin and clothing. Material should be handled in a laboratory hood whenever possible. Handle in accordance with good industrial hygiene and safety procedures.
Conditions for Safe Storage	Keep container tightly closed in a cool, well ventilated place. Storage 30 cm away from heat sources, including direct sunlight. Open flame. Sources of ignition. Sparks. Incompatible materials.

Section 8: Exposure Controls/Personal Protection

Components with Workplace Control Parameters	No data available.
Appropriate Engineering Controls	Provide local exhaust or general room ventilation. Material should be handled in a laboratory hood whenever possible.
PPE - Eye/Face Protection	Chemical goggles or safety glasses.
PPE - Skin Protection	Wear suitable gloves resistant to chemical penetration.
PPE - Body Protection	Wear suitable protective clothing.
PPE - Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type Wear approved mask. In case of insufficient ventilation, wear suitable respiratory equipment.

Section 9: Physical and Chemical Properties

Appearance	Color: White Physical state at 20°C: Powder
Upper/Lower Flammability or Explosive Limits	No data available
Odor	No data available
Vapor Pressure	No data available
Odor Threshold	No data available
Vapor Density	No data available
pH	4.5-5
Relative Density	No data available
Melting Point/Freezing Point	°C: 278-282
Solubility	In water: Partially soluble.
Initial Boiling Point and Boiling Range	No data available
Flash Point	No data available
Evaporation Rate	No data available
Flammability (Solid, Gas)	No data available
Partition Coefficient	Log P octanol / water at 20°C: -0.69
Auto-Ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available

Section 10: Stability and Reactivity

Reactivity	Stable under normal conditions.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal conditions.
Conditions to Avoid	Sources of ignition. Heat. Light.
Incompatible Materials	Strong bases. Strong oxidizers.
Hazardous Decomposition Products	Decomposition products: Carbon monoxide. Nitrogen oxides. Carbon dioxide. Hydrogen fluoride. When heated to decomposition, emits dangerous fumes. Hazardous polymerization: Will not occur.

Section 11: Toxicological Information

Acute Toxicity - LD50 Oral	LD50 Oral - rat - 230 mg/kg
Acute Toxicity - Inhalation	No data available
Acute Toxicity - Dermal	No data available
Acute Toxicity - Eye	No data available
Skin Corrosion/Irritation	No data available
Serious Eye Damage/Irritation	No data available
Respiratory or Skin Sensitization	No data available
Germ Cell Mutagenicity	Laboratory experiments have shown mutagenic effects.
Carcinogenicity IARC	Category 2: Substances which should be regarded as if they are carcinogenic to man.
Carcinogenicity ACGIH	Category 2: Substances which should be regarded as if they are carcinogenic to man.
Carcinogenicity NTP	Category 2: Substances which should be regarded as if they are carcinogenic to man.
Carcinogenicity OSHA	Category 2: Substances which should be regarded as if they are carcinogenic to man.
Reproductive Toxicity	Toxic for reproduction: Fertility : Category 2: Substances which should be regarded as if they are carcinogenic to man. Toxic for reproduction: unborn child : Category 2: Substances which should be regarded as if they cause developmental toxicity to humans
Specific Target Organ Toxicity - Single Exposure	No data available
Specific Target Organ Toxicity - Repeated Exposure	No data available
Aspiration Hazard	No data available

Section 12: Ecological Information

Toxicity	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. LC50-96 Hour - fish [mg/L] : 1000. EC50-48 Hour - Daphnia magna [mg/L] : 25. IC50-72h $\bar{A}\bar{\phi}$?? Algae [mg/L] : 0.11. Biodegradation [%] : 2
Persistence and Degradability	No data available
Bio-accumulative Potential	No data available
Mobility in Soil	Log P octanol / water at 20 $\bar{A}\bar{\phi}$?? : -0.69
Other Adverse Effects	Avoid release to the environment.

Section 13: Disposal Considerations

Waste Treatment Methods Product	Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/ national regulations
Waste Treatment Methods Packaging	Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/ national regulations
Special Precautions Landfill or Incinerations	No data available
Other Information	This product contains hazardous components for the environment. Avoid release to the environment.

Section 14: Transport Information

UN Number	2811
UN Proper Shipping Name	TOXIC SOLID, ORGANIC, N.O.S. (Fluorouracil)
Transport Hazard Class(es)	6.1
Packaging Group	III
Environmental Hazards	Marine pollution; Yes.

Section 15: Regulatory Information

No further information available.

Section 16: Other Information

Additional Information	N/A
Prepared By	Lisa Russell
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