



Humco Holding Group, Inc.
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800-662-3435
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www.humco.com

24-Hour Emergency Number (CHEMTREC)
USA- 800-424-9300

All non-emergency calls should be directed to
Customer Service at 800-662-3435

NAME: FLUOROURACIL, USP

SDS NO. 8080

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Fluorouracil, USP

Synonyms: 2,4(1H,3H)-Pyrimidinedione, 5-Fluoro-; 5-Fluorouracil

Recommended Use: Active Pharmaceutical Ingredient

Manufacturer by: Humco Holding Group, Inc.

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2. HAZARD IDENTIFICATION

Pictogram:	
Classification:	Acute toxicity (Oral) Category 3 Carcinogenicity Category 2
Signal Word:	Danger
Hazard Statements:	Toxic if swallowed. Causes eye irritation. May cause genetic defects. May damage fertility or the unborn child. Causes damage to organs (bone marrow) through prolonged or repeated exposure Suspected of causing cancer

Precautionary Statements	Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face. Do not eat, drink or smoke when using this product.
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3. COMPOSITION / INGREDIENTS

CHEMICAL NAME	CAS#
FLUOROURACIL, USP	51-21-8

4. FIRST-AID MEASURES

General information: Immediately remove any clothing soiled by the product. Take affected persons out into the fresh air.

After inhalation: Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water. Seek medical treatment.

After swallowing: Seek medical treatment.

Rinse out mouth with water and drink half a liter of water, if affected person is fully conscious.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Water spray

Carbon Dioxide

Fire-extinguishing powder

Alcohol resistant foam

Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Environmental precautions: Do not allow to enter sewers/surface or ground water.

Methods and material for containment and cleaning up: Pick up mechanically. Dispose of the material collected according to regulations.

7. HANDLING AND STORAGE

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container to an approved waste disposal plant.

Prevent formation of dust. Prevent formation of aerosols.

Information about fire-and explosion protection:

Keep ignition sources away- Do not smoke. Protect against electrostatic charges.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE GUIDELINES: Consult local authorities for provincial or state exposure limits

PERSONAL PROTECTIVE EQUIPMENT: Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SPECIFIC ENGINEERING CONTROLS: Adequate mechanical ventilation. Fume hood, eye wash station, and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid (Crystalline powder)	Upper/Lower Flammability:	Not determined
Odor:	odorless	Vapor Pressure	No data available
Odor Threshold:	No data available	Vapor Density:	No data available
pH:	No data available	Relative Density:	No data available
Melting point /Freezing Point:	282-286 °C	Solubilities:	Sparingly soluble in water. Partially soluble in methanol. Slightly soluble in alcohol. Practically insoluble in chloroform and diethyl ether.
Boiling point/range:	No data available	Partition coefficient: n-octanol/water:	No data available
Flash point	No data available	Auto-ignition temperature	No data available
Evaporation rate	No data available	Decomposition Temperature:	No data available
Flammability:	Product is not flammable	Viscosity	Not applicable

10. STABILITY AND RACTIVITY

Possibility of hazardous reactions

Reacts with strong oxidizing agents.

Reacts with acids.

Reacts with alkali (lyes).

Reacts with water and strong reducing agents.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity- LD50 Oral	115 mg/kg (mouse)
Acute Toxicity-Inhalation	Hazardous
Acute Toxicity- Dermal	Absorbed through skin. Slightly hazardous.
Acute Toxicity- Eye	No data available
Chronic effects in humans	Very hazardous in case of ingestion (irritant)

12. ECOLOGICAL INFORMATION

Toxicity	Aquatic toxicity – Data not available
Persistence and degradability	Data not available
Bioaccumulation potential	Data not available
Mobility in soil	Data not available
Other Adverse Effects	Data not available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with federal, state and local laws and regulations. Avoid release into environment.

14. TRANSPORT INFORMATION

DOT Hazard Classification:	Hazardous material
UN number:	UN2011
UN proper shipping name:	Toxic solid, organic, n.o.s. (Fluorouracil)
Transport hazard class(es):	Class 6.1
Packing group:	PG III

15. REGULATORY INFORMATION

Not determined

16. OTHER INFORMATION

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