

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Ftorafur / tegafur/ 5-Fluoro-1-(tetrahydro-2-furyl)uracil

Product ID F7657

Chemical Name

Tegafur; Citofur; Furafluor.

(Synonyms)

LKT Laboratories, Inc

545 Phalen Blvd. **Supplier**

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Emergency Phone #

1-800-424-9300

Section 2. Hazards Identification

GHS Classification Acute toxicity, Oral (Category 3), H301

Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Skin (Category 3), H311

GHS Label elements including precautionary statements

Pictogram



Signal word

Danger

Hazard and precautionary statements

Hazard statement

H301 + H311 + H331 - Toxic if swallowed, in contact with skin or if inhaled.

Precautionary statements

P261 - Avoid breathing dust, fumes, gas, mist, vapors and spray. P264 - Wash skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to freely at rest in a position comfortable for breathing.

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell.

P322 - Specific measures (see supplemental first aid instructions on this label).

P330 - Rinse mouth.

P361 - Remove/Take off immediately all contaminated clothing. P363 - Wash contaminated clothing before reuse.

P403 - P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification Health hazard: 2

Chronic health hazard: * Flammability: 0 Physical hazard: 0

NFPA Rating

Health hazard: 2 Fire hazard: 0 Reactivity hazard: 0

Potential Health Effects

Inhalation - Acute toxicity - Toxic if inhaled. May cause respiratory tract irritation.

Skin - Acute toxicity - Toxic if in contact with skin. May be harmful if absorbed through skin. May cause skin

irritation.

| Section 3. | Composition | /Information | on Ingredients |
|------------|-------------|--------------|----------------|
|------------|-------------|--------------|----------------|

Substances

200.17 **Formula** Formula Wt. C₈H₉FN₂O₃ 17902-23-7 241-846-2 CAS No. EC No.

Section 4. First Aid Measues

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Eye Contact

Flush eyes with water as a precaution.

Skin Contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Ingestion

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 . Firefighting Measures

Flash Point

Not available.

Extingushing Media

Water spray, alcohol-resistant foam, dry chemical powder, and carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus and protective clothing for fire fighting.

Carbon oxides, nitrogen oxides (NOx,) and hydrogen fluoride.

Unusual Fire Hazards

Section 6. Accidental Release Measures

Personal Precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleanup

Environmental Precautions

Avoid raising dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Storage Conditions

Store in a dry and well-ventilated place in a tightly closed container. Recommended storage temperature: Ambient

Hazardous

Carbon dioxide, nitrogen oxides (NOx) and hydrogen fluoride.

Decomposition **Products**

None.

Other Remarks

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

PERSONAL PROTECTION

Eye/face protection: Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact or Splash contact: Nitrile rubber - Minimum layer thickness 0.11, break through time 480 min., Material tested: Dermatril ® (KCL 740 / Aldrich Z677272, Size M).

Body protection: Complete suit protecting against chemicals. The type of protective equipment must be

Body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Solid. White crystal powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility Not available. 164°C-169°C **Melting Point Density** Soluble in hot water, ethanol, methanol, or Not available. Solubility DMSO. pН Not available. Not available. Ignition Flash Point temperature Not available Not available. **Autoignition** Lower explosion limit temperature Not available. Not available. Vapor Upper explosion limit pressure Soluble in hot water. Not available. Water solubility Odor Partition coefficient: Not available. Not available. Odor n-octanol/water Threshold Relative vapor density Not available. Not available. **Evaporation** rate

Section 10. Stability and Reactivity

Stable under recommended storage conditions. Stability

Strong oxidizing agents. **Materials To Avoid**

Hazardous Carbon dioxide, nitrogen oxides (NOx) and hydrogen fluoride.

Decomposition **Products**

Possibility of Not available. hazardous reactions

Not available.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat 930 mg/kg

Remarks: Gastrointestinal: Ulceration or bleeding from stomach. Nutritional and gross metabolic: Weight loss or decreased weight gain.

Skin Not available.

corrosion/irritation

Inhalation LC50 Not available.

Serious eye Not available.

damage/irritation

Dermal LD50 Not available.

Respiratory or Not available.

skin sensitization

Other information on Not available. acute toxicity

Germ cell mutagenicity Not available.

Reproductive Toxicity Not available.

Aspiration Hazard Not available.

Specific organ toxicity Not available. single exposure (GHS)

Synergistic effects Not available.

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information Not available.

Teratogenicity Not available.

Signs and symptoms Stomach - irregularities - based on human of exposure evidence.

Potential Inhalation - Acute toxicity - Toxic if inhaled. May cause respiratory tract irritation.

Health Effects
Skin - Acute toxicity - Toxic if imrated. May cause respiratory tract initiation.

Health Effects
Skin - Acute toxicity - Toxic if in contact with skin. May be harmful if absorbed through skin. May cause skin irritation.

Eyes - May cause eye irritation.

Ingestion - Acute toxicity - Toxic if swallowed.

Carcinogenicity 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Section 12. Ecological Information

Toxicity Not available.

Mobility in soil Not available.

Bioaccumulative potential Not available.

Section 13. Disposal Considerations

Waste Disposal

Dispose of material according to all federal, state, and local regulations.

Offer material to a licensed, professional waste disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of as unused

product.

Section 14. Transport Information

DOT (US) UN number: 2811 Class: 6.1 Packing group: II

Proper shipping name: Toxic solids, organic, n.o.s. (Ftorafur) Reportable quantity (RQ): Marine pollutant: No Poison in Poison inhalation hazard: No.

UN number: 2811 Class: 6.1 Packing group: II IATA

Proper shipping name: Toxic solid, organic, n.o.s. (Ftorafur)

IMDG UN number: 2811 Class: 6.1 Packing group: II EMS No: F-A, S-A Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Ftorafur)

Marine pollutant: No

Further Information

Section 15. Regulatory Information

Reach No.

SARA 302 Components No chemicals in this material are subject to the reporting requriements of SARA Title III, Section 302.

SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold

(De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components Acute health hazard and chronic health hazard.

Massachusetts Right No components are subject to the Massachusetts Right to Know Act.

To Know Components

Pennsylvania Right Ftorafur CAS #: 17902-23-7 **Revision Date:**

To Know Components

New Jersey Right Ftorafur **To Know Components**

CAS #: 17902-23-7 **Revision Date:**

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any Components other reproductive harm.

Section 16. Other Information

Other information

The information in this document is believed to be correct but is not necessarily complete. LKT does not guarantee the accuracy of the information. The burden of verifying the information in this document rests solely upon the user.

Updated 8/16/2019

For emergencies in the USA, call CHEMTREC 800-424-9300