

# Safety Data Sheet

# Section 1. Product and Company Identification

Product Name Methotrexate Hydrate

Product ID M1676

**Chemical Name** 

L-(+)-Amethopterin Dihydrate, Amethopterin, MTX, Emtexate, Ledertrexate, Rheumatrex

(Synonyms)

LKT Laboratories, Inc.

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**Emergency Phone #** 

1-800-424-9300

#### Section 2. Hazards Identification

**GHS Classification** 

Acute toxicity, Oral (Category 3) H301 Skin irritation (Category 2) H315 Eye irritation (Category 2A) H319 Reproductive toxicity (Category 1B) H360

# GHS Label elements including precautionary statements

# **Pictogram**





# Signal word

Danger

# Hazard and precautionary statements

#### Hazard statements

H301 - Toxic if swallowed

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

H360 - May damage fertility or the unborn child.

#### Precautionary statements

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash skin thoroughly after handling.

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

P280 - Wear protective gloves/ eye protection/ face protection.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.
P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P330 - Rinse mouth.

P332 + P313 - If skin irritation occurs: Get medical advice/ attention.

P337 + P313 - If eye irritation persists: Get medical advice/ attention.

P362 - Take off contaminated clothing and wash before reuse.

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 - May be harmful if inhaled. May cause respiratory tract irritation. Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes serious eye irritation.

Substances Ingredient: Title Compound Percent: 100

**Formula**  $C_{20}H_{22}N_8O_5 \cdot H_2O$  **Formula Wt.** 472.45

CAS No. 6745-93-3 EC No.

#### Section 4. First Aid Measues

General advice

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

Eye Contact

Flush eyes with plenty of water for at least 15 minutes and consult a physician.

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** 

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Firefighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary.

Carbon oxides, nitrogen oxides (NOx).

**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.

**Environmental Precautions** 

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

Methods and materials for containment and cleanup

Pick up and arrange disposal without creating 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. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

**Storage Conditions** 

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: -20°C

Hazardous Decomposition Products Not available.

**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

Exe/face protection: 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

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 and splash contact - Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, 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 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 N100 (US) or type P3 (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. Yellow crystal powder. **Physical State** Color Not available. Not available. Volatility **Boiling Point** 185-204°C(dec.) Not available. **Melting Point Density** Not soluble in water or ethanol. Soluble in Not available. Solubility dilute HCl and in alkaline soln. 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 Insoluble in 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, strong acids.

**Materials To Avoid** 

Hazardous Not available. Decomposition Products

Avoid moisture and light.

Conditions to avoid

# Section 11. Toxicological Information

Oral LD50 Not available. 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. Germ cell mutagenicity Not available.

acute toxicity

Reproductive Toxicity May cause congenital malformation in the

fetus. Presumed human reproductive toxicant.

Aspiration Hazard Not available.

Specific organ toxicity Not available. Synergistic effects Not available.

single exposure (GHS)

Specific organ toxicity Not available. repeated exposure (GHS)

Additional Information RTECS: Not available.

Blood, irregularities, based on human

evidence.

Teratogenicity Not available. Signs and symptoms Symptoms and signs of poisoning are:

of exposure Nausea, dizziness, headache, changes in the blood count, anemia, drowsiness, gastrointestinal disturbance, vomiting diarrhea fever, hair loss, mouth ulcers, fatigue, chills, anorexia, blurred vision, increased

susceptibility to infections.

Potential Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Health Effects Skin - May be harmful if absorbed through skin. Causes skin irritation.

Eyes - Causes serious eye irritation.
Ingestion - Acute toxicity. Toxic if swallowed.
Reproductive toxicity - May damage fertility or the unborn child.

Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP or EPA classification.

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans. (Methotrexate hydrate)

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 to dispose of as unused product. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **Section 14. Transport Information**

DOT (US) UN number: 2811 Class: 6.1 Packing Group: III

Proper shipping name: Alkaloids, solid, n.o.s. (Methotrexate hydrate)

Marine pollutant: No Poison inhalation hazard: No

IATA UN number: 2811 Class: 6.1 Packing Group: III

Proper shipping name: Alkaloids, solid, n.o.s. (Methotrexate hydrate)

IMDG UN number: 2811 Class: 6.1 Packing Group: III EMS #: F-A, S-A

Proper shipping name: ALKALOIDS, SOLID, N.O.S. (Methotrexate hydrate)

Marine pollutant: No

**Further Information** 

#### **Section 15. Regulatory Information**

#### Reach No.

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

SARA 313 Components SARA 313: 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, chronic health hazard.

Massachusetts Right Methotrexate hydrate CAS #: 6745-93-3 Revision Date: 1993-04-24

**To Know Components** 

**To Know Components** 

Pennsylvania Right Methotrexate hydrate CAS #: 6745-93-3 Revision Date: 1993-04-24

New Jersey Right Methotrexate hydrate CAS #: 6745-93-3 Revision Date: 1993-04-24 To Know Components

California Prop 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other Components reproductive harm.

Methotrexate hydrate CAS #: 6745-93-3 Revision Date: 2007-09-28

#### 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** 6/11/2020

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