

Safety Data Sheet

Section 1. Product and Company Identification

Product Name Tamoxifen Citrate

Product ID T0250

Chemical Name (Synonyms) Kessar; Nolvadex; Taxus; Zynoplex; Zemide

LKT Laboratories, Inc

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Emergency Phone # 1-800-424-9300

Section 2. Hazards Identification

GHS Classification Acute toxicity, Oral (Category 4), H302

Carcinogenicity (Category 1B), H350 Reproductive toxicity (Category 1B), H360

GHS Label elements including precautionary statements

Pictogram





Signal word

Danger

Hazard and precautionary statements

Hazard statements

H302 - Harmful if swallowed. H350 - May cause cancer. 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.

P281 - Use personal protective equipment as required.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 - IF exposed or concerned: Get medical advice/ attention.

P330 - Rinse mouth.

P405 - Store locked up.

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

HMIS Classification Health hazard: 1

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

NFPA Rating

Health hazard: 1 Fire hazard: 0 Physical hazard: 0

Potential Health Effects

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

Eyes - May cause eye irritation.

Substances Ingredient: Title Compound Percent: 100

Formula Formula Wt. 563.64 $C_{26}H_{29}NO \cdot C_6H_8O_7$ 54965-24-1 259-415-2 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. 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 fire fighting 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 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. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: Ambient

Hazardous Decomposition **Products**

Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).

Other Remarks

Section 8. Exposure Controls/Personal Protection

Personal protective EXPOSURE CONTROLS

equipment Contains no substances with occupational exposure limit values.

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

PERSONAL PROTECTION

Eye/face protection: Safety glasses with side-shields conforming to EN 166. Use equipment for eye protection Eye/face protection: Safety glasses with side-shields conforming to EN 166. 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 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.

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. White crystal powder. **Physical State** Color Not available. Not available. **Boiling Point** Volatility 143-146°C Not available. **Melting Point Density** Slightly soluble in water. Soluble in ethanol, Not available. methanol or acetone. pН Solubility 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 Slightly soluble 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

Stability

Stable under recommended storage conditions.

Strong oxidizing agents.

Materials To Avoid

Hazardous Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx).

Decomposition **Products**

Possibility of Not available. hazardous reactions

Not available.

Conditions to avoid

Section 11. Toxicological Information

Oral LD50 Rat - 1,190 mg/kg

Remarks: Behavioral:somnolence (general depressed activity). Respiratory disorder. Nutritional and Gross

Metabólic: 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 May cause congenital malformation in the

fetus. Presumed human reproductive toxicant.

May cause reproductive disorders.

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 RTECS: KH2387000

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Teratogenicity Not available.

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

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

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

Eyes - May cause eye irritation.
Ingestion - Acute toxicity. Harmful if swallowed.
This product may cause cancer. This product may damage fertility or the unborn child.

Carcinogenicity This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogen.

IARC: 1 - Group 1: Carcinogenic to humans((Z)-[2-[-4(1,2-Diphenylbut-1-enyl)phenoxy]ethyl]dimethylammonium dihydrogen 2-hydroxypropane-1,2,3-tricarboxylate). 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.

Persistence and degradability Not available.

Other adverse effects 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 after burner and scrubber.

Section 14. Transport Information

DOT (US) Not dangerous goods.

IATA Not dangerous goods.

IMDG Not dangerous goods.

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

Pennsylvania Right Tamoxifen Citrate CAS #: 54965-24-1 Revision Date: To Know Components

New Jersey Right Tamoxifen Citrate CAS #: 54965-24-1 Revision Date: To Know Components

California Prop 65
Components
WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
Tamoxifen Citrate CAS #: 54965-24-1 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 1/1/2019

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