



72664 72666 - Tamoxifen

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Revision Date 01-Mar-2023 Revision Number 1.1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

| Product identifier | | | | | |
|---|---|--|--|--|--|
| Product Name | Tamoxifen | | | | |
| Other means of identification | | | | | |
| Catalog Number | 72664 72666 | | | | |
| Document Number | DX23195 | | | | |
| Synonyms | trans-Tamoxifen; 2-[4-[(1Z)-1,2-diphenyl-1-buten-1-yl]phenoxy]-N,N-dimethyl-ethanamine; | | | | |
| Recommended use of the chemical | and restrictions on use | | | | |
| Recommended Use | Laboratory chemicals | | | | |
| Details of the supplier of the safety | data sheet_ | | | | |
| Manufacturer/Supplier STEMCELL Technologies Canada Inc Suite 500 - 1618 Station Street Vancouver, British Columbia V6A 1B6 | | | | | |
| Emergency telephone number | | | | | |
| Emergency Telephone | 1-800-667-0322 | | | | |
| | | | | | |
| | | | | | |

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| Acute toxicity - Oral | Category 4 |
|-----------------------------|-------------|
| Carcinogenicity | Category 1A |
| Reproductive toxicity | Category 1A |
| Effects on or via lactation | Yes |

Hazards not otherwise classified (HNOC)

Not applicable

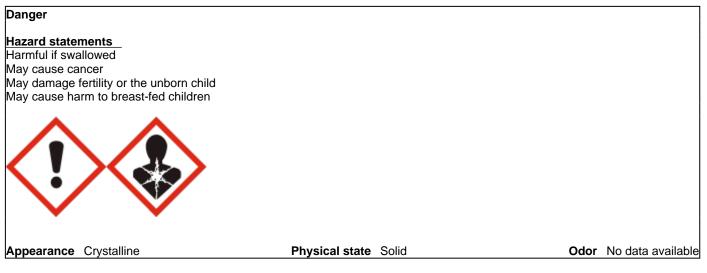
Label elements





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Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Obtain special instructions before use Do not breathe dusts or mists Avoid contact during pregnancy/while nursing Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product

Precautionary statements - Response

IF exposed or concerned: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Not applicable

Unknown acute toxicity

cute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)





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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Synonyms

trans-Tamoxifen; 2-[4-[(1Z)-1,2-diphenyl-1-buten-1-yl]phenoxy]-N,N-dimethyl-ethanamine;.

| Chemical name | CAS No. | Weight-% |
|--|------------|----------|
| 2-[4-(1,2-diphenylbut-1-en-1-yl)phenoxy]-N,N-dimet | 10540-29-1 | 100 |
| hylethanamine | | |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

| 4. FIRST AID MEASURES | | | |
|--|--|--|--|
| Description of first aid measures | | | |
| General advice | IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance. | | |
| Inhalation | Remove to fresh air. | | |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. | | |
| Skin contact | Wash skin with soap and water. | | |
| Ingestion | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician. | | |
| Most important symptoms and effe | cts, both acute and delayed | | |
| Symptoms | No information available. | | |
| Indication of any immediate medical attention and special treatment needed | | | |
| Note to physicians | Treat symptomatically. | | |
| | | | |
| | 5. FIRE-FIGHTING MEASURES | | |
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. | | |
| Unsuitable extinguishing media | CAUTION: Use of water spray when fighting fire may be inefficient. | | |





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Specific hazards arising from the No information available. chemical

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None. Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

| Personal precautions | Ensure adequate ventilation. | |
|--|--|--|
| Other Information | Refer to protective measures listed in Sections 7 and 8. | |
| | | |
| Environmental precautions | | |
| Environmental precautions | See Section 12 for additional Ecological Information. | |
| Methods and material for containment and cleaning up | | |
| Methods for containment | Prevent further leakage or spillage if safe to do so. | |
| Methods for cleaning up | Pick up and transfer to properly labeled containers. | |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. | |

7. HANDLING AND STORAGE

| Precautions for safe handling | |
|-------------------------------------|---|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. |
| Conditions for safe storage, includ | ing any incompatibilities |
| Storage Conditions | Store in accordance with information listed on the Product Information Sheet (PIS). Keep out of the reach of children. |





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| 8. EXP | OSURE CONTROLS/PERSONAL PROTECTION |
|------------------------------------|--|
| Control parameters | |
| Exposure Limits | The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here. |
| Appropriate engineering controls | |
| Engineering controls | Showers Eyewash stations Ventilation systems. |
| Individual protection measures, su | ch as personal protective equipment |
| Eye/face protection | No special protective equipment required. |
| Hand protection | Wear suitable gloves. |
| Skin and body protection | Wear suitable protective clothing. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| Information on basic physical and o | chemical properties | |
|-------------------------------------|------------------------------------|--------------------------------|
| Physical state | Solid | |
| Appearance | Crystalline | |
| Color | No information available | |
| Odor | No data available | |
| Odor threshold | No data available | |
| <u>Property</u> pH | <u>Values</u> No data available | Remarks • Method None known |





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Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties**

Other Information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density

No data available No data available No data available Product is not flammable. No data available No information available

No data available

No information available 371.5 C26H29NO No information available No information available No information available None known None known None known None known None known

None known None known None known None known None known None known None known None known

10. STABILITY AND REACTIVITY

| Reactivity | No information available. |
|------------------------------------|---|
| Chemical stability | Stable under recommended transport or storage conditions. |
| Possibility of hazardous reactions | None under normal processing. |
| Conditions to avoid | None known based on information supplied. |
| Incompatible materials | Strong oxidizing agents. |

Hazardous decomposition products Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure





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| Product Information | | | | | |
|---|--|--|-----------------|--|--|
| Inhalation | Specific test data for the s | Specific test data for the substance or mixture is not available. | | | |
| Eye contact | Specific test data for the s | Specific test data for the substance or mixture is not available. | | | |
| Skin contact | Specific test data for the s | ubstance or mixture is not availa | able. | | |
| Ingestion | Specific test data for the s on components). | Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components). | | | |
| Symptoms related to the physic | cal, chemical and toxicologica | I characteristics | | | |
| Symptoms | No information available. | | | | |
| Numerical measures of toxicity | <u>, </u> | | | | |
| Acute toxicity | | | | | |
| The following values are calcul ATEmix (oral) | ated based on chapter 3.1 of t 500.00 mg/kg | he GHS document | | | |
| Unknown acute toxicity0 % of the mixture consists of ingredient(s) of unknown toxicity0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)Product Information | | | | | |
| Component Information | | | | | |
| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 | | |
| 2-[4-(1,2-diphenylbut-1-en-1-yl) phenoxy]-N,N-dimethylethanami ne | = 4100 mg/kg (Rat) = 2150 mg/kg (Mouse) | - | - | | |
| 10540-29-1 | | | | | |
| Delayed and immediate effects | as well as chronic effects from | n short and long-term exposu | re | | |
| Delayed and minediale enects | | n short and long-term exposu | | | |
| Skin corrosion/irritation | No information available | | | | |

Product Information

Respiratory or skin sensitization No information available.

Product Information





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| Germ cell mutagenicity Product Information | No information | n available. | | |
|---|--|---|-----------------------------|--------------------------|
| Carcinogenicity | Classification | Classification based on data available for ingredients. | | |
| The table below indicates whethe | r each agency has l | isted any ingredient as a c | arcinogen. | |
| Chemical name | ACGIH | IARC | NTP | OSHA |
| 2-[4-(1,2-diphenylbut-1-e n-1-yl)phenoxy]-N,N-dim ethylethanamine 10540-29-1 | - | Group 1 | Known | - |
| Reproductive toxicity | Classification | based on data available for Product Information | or ingredients. May cause h | arm to breastfed babies. |
| | Ne informatio | - evelleble | | |
| STOT - single exposure | No information | Product Information | | |
| STOT - repeated exposure | No information | n available. Product Information | | |
| Aspiration hazard RTECS # | No information available. KR5919600 | | | |
| | 12. ECO | LOGICAL INFORM | IATION | |
| Ecotoxicity The environmental impact of this product has not been fully investigated. Product Information Product Information | | | | |
| Persistence and degradability | No information | n available. | | |
| Bioaccumulation | There is no da | ata for this product. | | |
| Other adverse effects | No information available. | | | |

13. DISPOSAL CONSIDERATIONS

| Waste treatment methods | |
|--|---|
| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging | Do not reuse empty containers. |





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14. TRANSPORT INFORMATION

| DOT | Not regulated |
|------------|---------------|
| TDG | Not regulated |
| MEX | Not regulated |
| ICAO (air) | Not regulated |
| IATA | Not regulated |
| IMDG | Not regulated |
| RID | Not regulated |
| ADR | Not regulated |
| ADN | Not regulated |

15. REGULATORY INFORMATION

| International Inventories | |
|---------------------------|-----------------|
| TSCA | Does not comply |
| DSL/NDSL | Complies |
| EINECS/ELINCS | Complies |
| ENCS | Does not comply |
| IECSC | Does not comply |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Complies |
| | |

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances





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US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Acute health hazard | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard | Yes |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|--|---------------------------|
| 2-[4-(1,2-diphenylbut-1-en-1-yl)phenoxy]-N,N-dimethylethanamin e - 10540-29-1 | Carcinogen |

U.S. State Right-to-Know Regulations

US State Regulations

This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION





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Prepared By,

Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 01-Mar-2023

Revision Note No information available.

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

End of Safety Data Sheet