

# **MATERIAL SAFETY DATA SHEET**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: (E)-4-Hydroxytamoxifen CAS Number: 174592-47-3 Catalog Numbers: AK-60058 For R&D use only. Company Identification: Ark Pharm, Inc. 1840 Industrial Drive, Suite 120 Libertyville, IL 60048 USA Tel: 847-367-3680 | Fax 847-367-3681

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

### Molecular Formula:

C26H29NO2

Molecular Weight:	387.51g/mol	
Component		Concentration
(E)-4-Hydroxytamoxifen		
CAS Number	174592-47-3	-

## 3. HAZARDS IDENTIFICATIONEMERGENCY OVERVIEW

### 3.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Acute toxicity, Oral (Category 4)

Skin irritation (Category 2)

Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3)

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

## 3.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]



Continue rinsing.

Pictogram		
Signal word	Warning	
Hazard statement(s)		
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
Precautionary statement(s)		
P261	Avoid breathing dust.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several	
	minutes. Remove contact lenses, if present and easy to do.	



Supplemental Hazard Statements

None



Harmful if swallowed.

R-phrase(s) R22 R36/37/38 S-phrase(s) S26

Hazard symbol(s)

S36/37 3.3 Other hazards Irritating to eyes, respiratory system and skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. None

#### FIRST AID MEASURES 4.

Eyes: Flush eyes with plenty of water occasionally lifting the upper and lower lids. Get medical aid. Skin: Get medical aid. Flush skin with plenty of water while removing contaminated clothing and shoes. Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

#### 5. FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus and full protective gear. Extinguishing Media: Use water spray, dry chemical, carbon dioxide or chemical foam.

#### ACCIDENTAL RELEASE MEASURES 6.

General Information: Use proper personal protective equipment. Spills/Leaks: Vacuum or sweep up material and place into suitable disposal container. Avoid generating dusty conditions.

#### 7. HANDLING AND STORAGE

Handling: Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin. Storage: Storage temperature: 2 - 8 °C and Keep container tightly closed in a dry and well-ventilated place.

#### 8. **EXPOSURE CONTROLS, PERSONAL PROTECTION**

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower. Use adequate ventilation to keep airborne concentrations low.

## Personal Protective Equipment

Eyes: Wear chemical safety goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Wear appropriate respirators where necessary.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	N/A
Boiling Point	No data available.
Melting Point	No data available.
Solubility in water	Slightly soluble.



Vapor Pressure	No data available.
Vapor Density	No data available.

## 10. STABILITY AND REACTIVITY

Chemical Stability: This product is relatively unstable under normal temperature.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous combustion or Decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides.

## 11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects
- Acute toxicity
- No data available.
- Skin corrosion/irritation
- No data available.

#### Serious eye damage/eye irritation

No data available.

#### Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

## 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.

#### Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

No data available.

### Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

#### Additional Information

RTECS: No data available.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available.
12.2 Persistence and degradability
No data available.
12.3 Bioaccumulative potential
No data available.
12.4 Mobility in soil
No data available.
12.5 Results of PBT and vPvB assessment
No data available.
12.6 Other adverse effects
No data available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

14.1 UN number				
ADR/RID: _	IMDG: _	IATA: _		
14.2 UN proper shipping name				
ADR/RID:	Not dangerous goods			
IMDG:	Not dangerous goods			
IATA:	Not dangerous goods			
14.3 Transport hazard class(es)				
ADR/RID: _	IMDG: _	IATA: _		
14.4 Packaging group				
ADR/RID: _	IMDG: _	IATA: _		
14.5 Environmental hazards				
ADR/RID: No	IMDG Marine pollutant: No	IATA: No		
14.6 Special precautions for user				
No data available.				

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture: No data available.

Chemical Safety Assessment: No data available.

## 16. ADDITIONAL INFORMATION

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

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