

TCI (Shanghai) DEVELOPMENT CO., LTD.

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# SAFETY DATA SHEET

1. IDENTIFICATION

**Product name:** Estra-5(10),9(11)-diene-3,17-dione 3-Ethylene Ketal

Product code: E0918

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Revision number: 2.1

# 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS Not classified

**HEALTH HAZARDS** 

**Reproductive toxicity**Specific target organ toxicity
Category 1B
Organs

- Repeated exposure [Category 2]

**ENVIRONMENTAL HAZARDS** 

Acute aquatic hazard Category 2
Long-term aquatic hazard Category 2

Label elements

Pictograms or hazard symbols





Signal word Danger

Hazard statements May damage fertility or the unborn child

May cause damage to organs through prolonged or

repeated exposure: Organs

Toxic to aquatic life

Toxic to aquatic life with long lasting effects

**Precautionary statements** 

[Response]

[Prevention] Obtain special instructions before use.

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

Do not breathe dust, fume, mist, vapors or spray.

Avoid release to the environment.

Wear protective gloves, protective clothing, face protection. IF exposed or concerned: Get medical advice or attention.

Collect spillage.

[Storage] Store locked up.

[Disposal] Dispose of contents and container in accordance with local, regional, national

regulations.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance

Estra-5(10),9(11)-diene-3,17-dione 3-Ethylene Ketal Components:

>98.0%(HPLC) Percent: CAS RN: 5571-36-8 **Chemical Formula:** C20H26O3

### 4. FIRST AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Get medical advice/attention.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty

of soap and water. Get medical advice/attention.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Get medical advice/attention.

Ingestion: Get medical advice/attention.Rinse mouth.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and

air-tight goggles.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing Dry chemical, foam, water spray, carbon dioxide.

media:

**Precautions for firefighters:** Fire-extinguishing work is done from the windward and the suitable

> fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the

surroundings: Remove movable containers if safe to do so.

Special protective equipment When extinguishing fire, be sure to wear personal protective equipment for firefighters:

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Use personal protective equipment. Keep people away from and upwind of

protective equipment and emergency procedures:

spill/leak. Entry to non-involved personnel should be controlled around the leakage

area by roping off, etc.

Environmental precautions: Be careful not to let it flow into rivers, etc., since adverse effects on the

environment are concerned.

Methods and materials for

containment and cleaning

Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with

appropriate laws and regulations.

#### 7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective

equipment. Prevent dispersion of dust. Wash hands and face thoroughly after

handling.

Use a closed system if possible. Use a local exhaust if dust or aerosol will be

generated.

Avoid all contact! Advice on safe handling:

Conditions for safe storage, including any

incompatibilities

up:

Storage conditions: Keep container tightly closed. Store in a cool and dark place.

> Store under inert gas. Protect from moisture. Store locked up.

Store away from incompatible materials such as oxidizing agents.

Moisture-sensitive

Packaging material: Comply with laws.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering controls:** Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator,

etc. Use respirators approved under appropriate government standards and follow

local and national regulations.

Hand protection: Impervious gloves.

**Eye protection:** Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Solid

Form: Crystal - Powder

Colour: White - Slightly pale yellow

Odour: No data available No data available

Melting point/freezing point: 156°C

Boiling point/range: No data available Flash point: No data available

Flammability or explosive

limits:

Lower: No data available
Upper: No data available
Relative density: No data available

Solubility(ies):

[Water] No data available

[Other solvents]

Soluble: Hot methanol

### 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under proper conditions.

**Possibility of hazardous** No special reactivity has been reported.

reactions:

**Incompatible materials:** Oxidizing agents

Hazardous decomposition Carbon dioxide, Carbon monoxide

products:

### 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:
Skin corrosion/irritation:
No data available
No data available
No data available

damage/irritation:

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available
NTP = No data available
Reproductive toxicity: No data available

### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** 

Fish:

Crustacea:

Algae:

Persistence / degradability:

Bioaccumulative

No data available
No data available
No data available
No data available

potential(BCF): Mobility in soil

Log Pow: No data available Soil adsorption (Koc): No data available Henry's Law (PaM ³/mol): No data available

#### 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

### 14. TRANSPORT INFORMATION

**Hazards Class:** 9: Miscellaneous dangerous goods.

**UN-No:** 3077

**Proper shipping name:** Environmentally hazardous substance, solid, n.o.s.

Packing group: III
Marine pollutant Y

### 15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

### **16. OTHER INFORMATION**

The reference company name of written contents

Company: TCI (Shanghai) DEVELOPMENT CO., LTD.

Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China

**Department:** Technical Information Department

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This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.

The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.