

# Material Safety Data Sheet

## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

### 1.1 Product identifier

Product name: Estrone

Product Number: AS112364

CAS No.: 53-16-7

REACH Registration No.: A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

**IDENTIFIED USES: LABORATORY CHEMICALS, MANUFACTURE OF CHEMICAL PRODUCTS**

### 1.3. Details of the supplier of the safety data sheet

Manufacturer: Activate Scientific GmbH, Am Mitterweg 12, D-83209 Prien, Germany

Telephone: +49-(0)8051-9651660

### 1.4. Emergency telephone number

Emergency Phone EU: +49-(0)551-383180

Emergency Phone UK: +44-(0)1747 833100

Transport Emergency US & CD: 800-451-8346 (or 1-800-CHEMCALL)

## SECTION 2 - HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

Acute toxicity, inhalation Category 3 - H331

Specific target organ toxicity, single exposure; Narcotic effects

Category 3 - H336 Specific target organ toxicity, repeated exposure Category 3 - H372

### 2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008



## Signalword *Danger*

Hazard statement(s)

H331 Toxic if inhaled

H336 May cause drowsiness or dizziness

H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P281 Use personal protective equipment as required.

P314 Get medical advice/ attention if you feel unwell

### 2.3 Other hazards

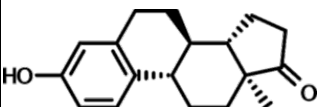
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher.

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

**Product Number: AS112364**

Substance Name: Estrone

CAS: 53-16-7

| Component | Classification                                                                                                                                                                                             | Structure                                                                          | Concentration |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------|
| Estrone   | Acute toxicity, inhalation Category 3 - H331<br>Specific target organ toxicity, single exposure; Narcotic effects<br>Category 3 - H336 Specific target organ toxicity, repeated exposure Category 3 - H372 |  | <= 100%       |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4 - FIRST AID MEASURES

### Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact** Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed narcosis, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.**

**4.3 Indication of any immediate medical attention and special treatment needed**

## SECTION 5 - FIREFIGHTING MEASURES

### 5.1 Extinguishing media

*Suitable extinguishing media:* Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 6.2 Environmental precautions

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

### 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections** For disposal see section 13.

## SECTION 7 - HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition -No smoking. Take measures to prevent the build up of electrostatic charge.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Storage Temperature:

2-7°C Refrigerate

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**7.3 Specific end uses** No data available

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

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

#### Personal protective equipment

**Eye/face protection** Safety glasses with side-shields conforming to EN166 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

**Body Protection** impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance/Form: solid Colour: clear
- b) Odour: No data available
- c) Melting point/freezing point range: No data available
- d) Initial boiling point and boiling range: No data available
- e) Flash point: No data available
- f) Flammability (solid, gas): No data available
- g) Upper/lower flammability/ explosive limits: No data available
- h) Auto ignition temperature: No data available
- i) Explosive properties: No data available
- j) Oxidizing properties: No data available

### 9.2 Other safety information

No data available

## SECTION 10 - STABILITY AND REACTIVITY

**10.1 Reactivity** No data available

**10.2 Chemical stability** No data available

**10.3 Possibility of hazardous reactions** No data available

**10.4 Conditions to avoid** No data available

**10.5 Incompatible materials** Strong oxidizing agents

**10.6 Hazardous decomposition products** Other decomposition products - No data available

## SECTION 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 presents 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** Inhalation - May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** No data available

**Aspiration hazard** No data available

**Potential health effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes serious eye irritation.

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

**Additional Information RTECS:** Not available

## SECTION 12 - ECOLOGICAL INFORMATION

**12.1 Toxicity** No data available

**12.2 Persistence and degradability** No data available

**12.3 Bio accumulative 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

## SECTION 14: Transport information

### 14.1. UN number or ID number

ADR/RID: IMDG: IATA:

### 14.2. UN proper shipping name

ADR/RID: IMDG: IATA:

### 14.3. Transport hazard class(es)

ADR/RID: IMDG: IATA:

### 14.4. Packing 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

## SECTION 15 - REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

#### 15.2 Chemical Safety Assessment

No data available

## SECTION 16 - OTHER INFORMATION

#### DISCLAIMER FOR R&D USE ONLY- NOT FOR DRUG, HOUSEHOLD OR OTHER USES

Hazard statement(s)

H331 Toxic if inhaled

H336 May cause drowsiness or dizziness

H372 Causes damage to organs through prolonged or repeated exposure

Precautionary statement(s)

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P281 Use personal protective equipment as required.

P314 Get medical advice/ attention if you feel unwell

**WARRANTY** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Activate Scientific GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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