

# ACETYL FERROCENE ①



**SIGMA-ALDRICH**

## Material Safety Data Sheet

Date Printed: 02/13/2004  
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Version 1.10

### Section 1 - Product and Company Information

**Product Name** ACETYL FERROCENE, 95%  
**Product Number** 106860  
**Brand** Aldrich Chemical

**Company** Sigma-Aldrich  
**Street Address** 3050 Spruce Street  
**City, State, Zip, Country** SAINT LOUIS, MO 63103 US  
**Technical Phone:** 314 771 5765  
**Fax:** 800 325 5052

**Emergency Phone:** 414 273 3850 Ext. 5996

### Section 2 - Composition/Information on Ingredient

**Substance Name** ACETYL FERROCENE  
**CAS #** 1271-55-2  
**SARA 313** No

**Formula** C<sub>12</sub>H<sub>12</sub>FeO  
**Synonyms** Acetoferrrocene, Acetylferrocene, 1-Acetylferrocene, Ferrocene, acetyl-, Ferrocenyl methyl ketone, Iron, (acetylcyclopentadienyl)cyclopentadienyl-, Monacetylferrocene

### Section 3 - Hazards Identification

**Emergency Overview**  
Highly Toxic (USA) Very Toxic (EU).  
Very toxic by inhalation, in contact with skin, and if swallowed.  
For additional information on toxicity, please refer to Section 11.

### Section 4 - First Aid Measures

**Immediate Treatment - Work Site**  
In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.

**Oral Exposure**  
If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

**Inhalation Exposure**  
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Eye Exposure**  
Assure adequate flushing of the eyes by separating the eyelids with fingers.

### Section 5 - Fire Fighting Measures

**Autoignition Temp:** N/A

#### Extinguishing Media

**Suitable**  
Water spray, Carbon dioxide, dry chemical powder, or appropriate foam.

#### Firefighting

**Protective Equipment**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### Section 6 - Accidental Release Measures

**Procedure to be Followed in Case of Leak or Spill**  
Evacuate area.

**Procedure(s) of Personal Precaution(s)**  
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

#### Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

### Section 7 - Handling and Storage

#### Handling

**User Exposure**  
Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### Storage

**Suitable**  
Keep tightly closed. Store in a cool dry place.

### Section 8 - Exposure Controls / PPE

#### Engineering Controls

Safety shower and eye bath. Use only in a chemical fume hood.

#### Personal Protective Equipment

**Other**  
Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

#### General Hygiene Measures

Wash thoroughly after handling.

### Section 9 - Physical/Chemical Properties

#### Appearance

**Form**  
Fine crystals

**Molecular Weight:** 228.07 AMU

**pH** N/A  
**BP/BP Range** N/A  
**MP/MP Range** 82 °C  
**Freezing Point** N/A  
**Vapor Pressure** N/A  
**Vapor Density** N/A  
**Saturated Vapor Conc.** N/A

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SG/Density N/A  
Bulk Density N/A  
Odor Threshold N/A  
Volatile% N/A  
VOC Content N/A  
Water Content N/A  
Solvent Content N/A  
Evaporation Rate N/A  
Viscosity N/A  
Partition Coefficient N/A  
Decomposition Temp. N/A  
Flash Point °F N/A  
Flash Point °C N/A  
Explosion Limits N/A

Flammability N/A  
Autoignition Temp N/A  
Solubility N/A

N/A = not available

## Section 10 - Stability and Reactivity

### Stability

#### Materials to Avoid

Strong oxidizing agents, Strong reducing agents.

### Hazardous Decomposition Products

#### Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide.

## Section 11 - Toxicological Information

### Route of Exposure

#### Multiple Routes

May be fatal if inhaled, swallowed, or absorbed through skin. May cause irritation.

### Signs and Symptoms of Exposure

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

RTECS Number: OB3700000

### Toxicity Data

Oral - Rat: 25 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).

Vascular:Regional or general arteriolar or venous dilation.

Lungs, Thorax, or Respiration:Dyspnea.

Oral - Rat: 25 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).

Vascular:Regional or general arteriolar or venous dilation.

Lungs, Thorax, or Respiration:Dyspnea.

Oral - Mouse: 50 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).

Behavioral:Tremor.

Vascular:Regional or general arteriolar or venous dilation.

Oral - Mouse: 50 mg/kg (LD50)

Remarks: Behavioral:Somnolence (general depressed activity).

Behavioral:Tremor.

Vascular:Regional or general arteriolar or venous dilation.

Intraperitoneal - Mouse: 25 MG/KG (LD50)

Remarks: Behavioral:Tremor.

Gastrointestinal:Changes in structure or function of salivary glands.

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Skin and Appendages: Other: Hair,

Intraperitoneal - Mouse: 25 MG/KG (LD50)

Remarks: Behavioral:Tremor.

Gastrointestinal:Changes in structure or function of salivary glands.

Skin and Appendages: Other: Hair.

Intravenous - Mouse: 75 MG/KG (LD50)

Intravenous - Mouse: 75 MG/KG (LD50)

Skin - Mammal: 23.3 mg/kg (LD50)

## Section 12 - Ecological Information

No data available.

## Section 13 - Disposal Considerations

### Appropriate Method of Disposal of Substance or Preparation

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## Section 14 - Transport Information

### DOT

Proper Shipping Name: Toxic solids, organic, n.o.s.

UN#: 2811

Class: 6.1

Packing Group: Packing Group II

PIH: Not PIH

### IATA

Proper Shipping Name: Toxic solid, organic, n.o.s.

IATA UN Number: 2811

Hazard Class: 6.1

Packing Group: II

## Section 15 - Regulatory Information

### EU Additional Classification

Symbol of Danger: T

Indication of Danger

Toxic.

Risk Statements R: 25

Toxic if swallowed.

Safety Statements S: 36/37/39 45

Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### US Classification and Label Text

Indication of Danger

Highly Toxic (USA) Very Toxic (EU).

Risk Statements

Very toxic by inhalation, in contact with skin, and if swallowed.

Safety Statements

Wear suitable protective clothing, gloves, and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes Yes

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**Canada Regulatory Information**

**WHMIS Classification**

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the Information required by the CPR.

DSL: No

NDSL: Yes

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**Section 16 - Other Information**

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**Disclaimer**

For R&D use only. Not for drug, household or other uses.

**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. Sigma-Aldrich Inc., 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. Copyright 2004 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

