



## Section 1 - Chemical Product and Company Identification

**Product Name** Acetylacetone pure, 99%  
**Product Code** 96169  
**CAS No** 123-54-6  
**Use for** Laboratory Chemicals.  
**Company Name** Sisco Research Laboratories Pvt. Ltd.  
**Address** 608, B Wing, Satellite Gazebo, Andheri Ghatkopar Link Road,  
Andheri (E), Mumbai - 400 099, India

## Section 2 - Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
123-54-6	Acetylacetone	99	204-634-0

## Section 3 - Hazards Identification

### Risk advice to man and the environment

Toxic if swallowed. Very toxic in contact with skin. Irritating to eyes, respiratory system and skin.

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes 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. Get medical aid.

### Notes to Physician:

**Antidote:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors can travel to a source of ignition and flash back. Will burn if involved in a fire. Containers may explode in the heat of a fire. Flammable liquid and vapor.

**Extinguishing Media:** For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective.

## Section 6 - Accidental Release Measures



**Product Code** 96169

**General Information:** Use proper personal protective equipment as indicated in Section 8.  
**Spills/Leaks:** Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Do not let this chemical enter the environment

## Section 7 - Handling and Storage

**Handling:** Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Use with adequate ventilation.

**Storage:** 25 to 40°C (Room Temperature). Keep away from sources of ignition. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Do not store in metal containers.

## Section 8 - Exposure Control / Personal Protection

**Engineering Controls:** Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

**Exposure Limits** CAS# 123-54-6:

### Personal Protective Equipment

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid

**Color:** APHA: 30 max

**Specific Gravity/Density:** 0.970-0.974 g

**Molecular Formula:** C5H8O2

**Molecular Weight:** 100.12

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, light, ignition sources, exposure to air, excess heat.

### Incompatibilities with

**Other Materials :** Metals, strong oxidizing agents, liquid oxygen, nitric acid, ozone, mineral acids.

### Hazardous Decomposition

**Products :** Carbon monoxide, carbon dioxide.

**Hazardous Polymerization :** Will not occur.



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**Section 11 - Toxicological Information**

**RTECS#:** CAS# 123-54-6: SA1925000

**LD50/LC50:** RTECS:

**CAS# 123-54-6:** Draize test, rabbit, eye: 20 mg Severe;

Draize test, rabbit, skin: 11.2 mL/6H (Intermittent) Mild;

Draize test, rabbit, skin: 33.6 mL/6H (Intermittent) Moderate;

Draize test, rabbit, skin: 11.2 mL/2D (Intermittent) Moderate;

Oral, mouse: LD50 = 951 mg/kg;

Oral, rat: LD50 = 55 mg/kg;

Oral, rat: LD50 = 55 mg/kg;

Skin, rabbit: LD50 = 810 uL/kg;

Other: Oral rat LD50 = 0.686 mL/kg (0.777 mL/kg male and 0.594 mL/kg female) Skin rabbit LD50 = 1.111 mL/kg (1.41 mL/kg male and 0.812 mL/kg female) Inh rat LC50 = 1224 ppm/4H (vapour) Oral rat LD50 = 575 mg/kg Skin rat LD50 = 790 mg/kg Inh rat LC50 = 5.1 mg/L/4H

**Carcinogenicity:** Acetylacetone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

**Other:** See actual entry in RTECS for complete information.

**Section 12 - Ecological Information**

**Ecotoxicity:** Algae: > 300 mg/L; 24H; EC50

Daphnia: Daphnia: 40 mg/L; 24H; EC50

Daphnia: Daphnia: 90 mg/L; 24H; EC100

Fish: Leuciscus idus: 146 mg/L; 48H; LC50

Fish: Rainbow trout: 72 mg/L; 96H; LC50

Fish: Pimephals prome: 104 mg/L; 96H; LC50

Fish: Fathead Minnow: 74 mg/L; 96H; LC50

**Other:** Biodegradable. Do not empty into drains.

Biodegradation: 72% / 5D ; 77% / 10D ; 85% / 20DCOD = 1780 mgO2/gBOD5 = 960 mgO2/gLog Pow = 0.34

**Section 13 - Disposal Considerations**

Dispose of in a manner consistent with federal, state, and local regulations.

**Section 14 - Transport Information**

	<b>IATA</b>	<b>IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	Acetylacetone	Acetylacetone	Acetylacetone
<b>Hazard Class:</b>	3	3	3
<b>UN Number:</b>	2310	2310	2310
<b>Packing Group:</b>	III	III	III

**Section 15 - Regulatory Information**



**Product Code** 96169

**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases: R 10 Flammable. R 22 Harmful if swallowed.

Safety Phrases: S 21 When using do not smoke. S 23 Do not inhale gas/fumes/vapour/spray. S 24/25  
Avoid contact with skin and eyes.

WGK (Water Danger/Protection) CAS# 123-54-6: 1

Canada CAS# 123-54-6 is listed on Canada's DSL List

**US Federal**

TSCA

CAS# 123-54-6 is listed on the TSCA Inventory.

**Section 16 - Other Information**

Sisco Research Laboratories Pvt. Ltd. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.