



## Section 1 - Chemical Product and Company Identification

**Product Name** Acetylacetone extrapure AR, 99.5%  
**Product Code** 24212  
**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	<=100	204-634-0

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

Flammable. Harmful if swallowed.

#### Potential Health Effects

**Eye:** Causes eye irritation. Causes redness and pain  
**Skin:** Causes skin irritation. May be harmful if absorbed through the skin. Contact with skin causes pupils to dilate.  
**Ingestion:** Harmful if swallowed. May cause irritation of the digestive tract. May cause central nervous system effects.  
**Inhalation:** May cause respiratory tract irritation. May be harmful if inhaled. May produce numbness and tingling of the lips, hands, and feet (paresthesia) and ataxia (failure of muscular coordination).  
**Chronic:**

## 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



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**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

**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:** 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



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**Product Code** 24212  
Physical State: Clear liquid  
Color: APHA: 30 max  
Specific Gravity/Density: 0.970-0.974 g  
Molecular Formula: C 5 H 8 O 2  
Molecular Weight: 100.12  
Melting point -23 °C - lit.  
Boiling point 140,4 °C - lit.  
Flash point 35°C - closed cup

## 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.

## 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



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**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 mgO<sub>2</sub>/gBOD<sub>5</sub> = 960 mgO<sub>2</sub>/gLog Pow = 0.34

## Section 13 - Disposal Considerations

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

## Section 14 - Transport Information

	IATA	IMO	RID/ADR
Shipping Name:	PENTANE-2,4-DIONE		
Hazard Class:	3(6.1)	3(6.1)	3(6.1)
UN Number:	2310	2310	2310
Packing Group:	III	III	III

## Section 15 - Regulatory Information

### 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.