

MATERIAL SAFETY DATA SHEET

1-BENZOYLACETONE

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name: 1-Benzoylacetone
Synonyms: 1-Phenyl-1,3-butanedione; 2-Acetylacetophenone;
Acetoacetophenone.
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2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name:	%	EINECS#
93-91-4	1-Benzoylacetone	98%	202-286-4

3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Caution! The toxicological properties of this material have not been fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

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. Wash clothing before reuse. Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting.

Ingestion: If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or 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:

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.
- Extinguishing Media:** Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

6 - ACCIDENTAL RELEASE MEASURES

- General Information:** Use proper personal protective equipment as indicated in Section 8.
- Spills/Leaks:** Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up or absorb material, then place into a suitable clean, dry, closed container for disposal. Avoid generating dusty conditions. Provide ventilation.

7 - HANDLING AND STORAGE

- Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
- Storage:** Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

- Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

- Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
- Skin:** Wear appropriate protective gloves to prevent skin exposure.
- Clothing:** Wear appropriate protective clothing to prevent skin exposure.
- Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use. Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Melting Point: 56 - 58 deg C
Molecular Formula: C₁₀H₁₀O₂
Molecular Weight: 162.19

10 - STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: Incompatible materials, dust generation, strong oxidants.
Incompatibilities with Other Materials : Not available
Hazardous Decomposition Products : Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization : Has not been reported.

11 - TOXICOLOGICAL INFORMATION

RTECS#: CAS# 93-91-4: EK3540200
LD50/LC50: RTECS: Not available.
Carcinogenicity: 1-Benzoylacetone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Epidemiology: No information found
Teratogenicity: No information found
Reproductive: No information found
Neurotoxicity: No information found
Mutagenicity: No information found
Other: Not available

12 - ECOLOGICAL INFORMATION

Not available

13 - DISPOSAL CONSIDERATIONS

Not available

14 - TRANSPORT INFORMATION

	IATA	IMO	RID/ADR
Shipping Name:	Not regulated	Not regulated	Not regulated
Hazard Class:			
UN Number:			
Packing Group:			

15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases: S 24/25 Avoid contact with skin and eyes.S 28A After contact with skin, wash immediately with plenty of water.S 37 Wear suitable gloves.S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)CAS# 93-91-4: Not available

Canada CAS# 93-91-4 is listed on Canada's NDSL List

US Federal

TSCA: CAS# 93-91-4 is listed on the TSCA Inventory.

Health&Safety Reporting List: None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New

Use Rule: None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and

corresponding RQs: None of the chemicals in this material have an RQ.

SARA Section 302

Extremely Hazardous

Substances: None of the chemicals in this product have a TPQ.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act: This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA.None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: STATE 1-Benzoylacetone is not present on state lists from CA, PA, MN, MA, FL, or NJ.

16 - ADDITIONAL INFORMATION

SISCO RESEARCH LABORATORIES 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.