

 <p>CHEMLABS Quality Our Forte</p>	<p>LEONID CHEMICALS PVT. LTD., BANGALORE</p> <p>An ISO-9001:2008 Certified Company</p> <p>Quality Assurance Department</p>	<p>(CODE) DOCUMENT : WI (CODE) SECTION : WI/SM (DATE) : 01.04.2011</p>	 <p>Issue : 02 Rev.: 00</p>
<p>Title: MATERIAL SAFETY DATA SHEET (MSDS): BENZOPHENONE</p>		<p>1 Page of 1</p>	

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
Benzophenone

Catalog Numbers:
B066

Synonyms:
Unlisted

Company Information:
LEONID CHEMICALS Pvt Ltd,
62/A-2, 1st Stage,
Yeshvanthpur Industrial Suburb,
Asoka puram School Road,
Bangalore -22, Karnataka, INDIA
Ph- +91-80-23378354
Fax: +918023378354/23377126

SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	: 119-61-9
Chemical Name	: BENZOPHENONE
%	: 99 %
EINECS#	: 204-337-6
Hazard Symbols	: Unlisted.
Risk Phrases	: Unlisted.

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
No information available.

Potential Health Effects
Eye:
May cause eye irritation.

Skin:
May cause skin irritation.

Ingestion:
Ingestion of large amounts may cause gastrointestinal irritation. May cause nausea and vomiting.

Inhalation:
May cause respiratory tract irritation. May cause drowsiness, unconsciousness, and central nervous system depression.

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Chronic:

Prolonged or repeated skin contact may cause dermatitis.

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:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Do NOT induce vomiting. 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:

No information available.

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. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

Do NOT use water directly on fire. In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

SECTION 6 -ACCIDENTAL RELEASE MEASURES

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions.

SECTION 7 - HANDLING AND STORAGE

Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid breathing

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dust, vapor, mist, or gas. Avoid contact with skin and eyes. Take precautionary measures against static discharges. Avoid ingestion and inhalation.

Storage:

Store in a cool, dry place. Store in a tightly closed container. Keep from contact with oxidizing materials.

SECTION 8 -Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

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 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. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

SECTION 9 -PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Flakes
Color	: White to off-white
Odor	: Rose-like - strong odor
pH	: No information available.
Vapor Pressure	: 1.3 hPa @ 108°C
Viscosity	: No information available.
Boiling Point	: 305°C @ 760.00mm Hg
Freezing/Melting Point	: 49 - 51°C
Autoignition Temperature	: No information available.
Flash Point	: 143°C (289.40°F)
Explosion Limits, lower	: No information available.
Explosion Limits, upper	: No information available.
Decomposition Temperature	: No information available.
Solubility in water	: Insoluble
Specific Gravity/Density	: No information available.
NFPA Rating	: No information available.
Molecular Formula	: C ₁₃ H ₁₀ O
Molecular Weight	: 182.22

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable.

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Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong reducing agents.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 119-61-9: Di9950000

LD50/LC50:

CAS# 119-61-9: Oral, mouse: LD50 = 2895 mg/kg; Oral, rat: LD50 = >10 gm/kg; Skin, rabbit: LD50 = 3535 mg/kg.

Carcinogenicity:

BENZOPHENONE, 99% - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Fish toxicity:

LC50 fathead minnow 15.3 mg/L/96H

Invertebrate toxicity:

EC50 Photo bacterium phosphoreum 8.92 mg/L/30min Microtox test Bio accumulation: Non accumulative or low accumulative (The Dictionary of Substances and their Effects, 1992).

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14 - TRANSPORT INFORMATION

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

SECTION 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

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Hazard Symbols:

No information available.

Risk Phrases:

No information available.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.
WGK (Water Danger/Protection) CAS# 119-61-9: 1
United Kingdom Occupational Exposure Limits
No information available.
United Kingdom Maximum Exposure Limits
No information available.

Canada

CAS# 119-61-9 is listed on Canada's DSL List.
CAS# 119-61-9 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

No information available.

US FEDERAL TSCA

CAS# 119-61-9 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Leonid Chemicals Pvt. Ltd. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Leonid Chemicals Pvt. Ltd. has been advised of the possibility of such damages.



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		(CODE) SECTION : B066	
Title: SPECIFICATION MANUAL - BENZOPHENONE			Issue : 02 Rev.: 00 1 Page of 1

Specification manual - Benzophenone

C₁₃H₁₀O

Mol Wt: 182.22

Product : Benzophenone Reagent LR Grade
Description : Off white crystalline powder
Cat No : B066
Cas No : 119-61-9
Prepared Date : 19.03.2008
Approved Date : 19.03.2008

REVISION HISTORY			
Issue/Rev	Description of Change	Author	Effective Date
01/00	Initial Release	S. Paul Joshua	19.03.2008
02/00	Reviewed no changes	S. Paul Joshua	01.04.2011
Next Review Due :	02.04.2015		
To be reviewed by :	Head-QC/QA		

Sl. No.	Tests	Specification
		LR
1	Assay GC	99%
2	Melting point	49°C -51°C

Approved By: S.Paul Joshua, Head Quality Control and Quality Assurance