**MATERIAL SAFETY DATA SHEET**

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

- **MSDS Name**: Benzophenone, 99%
- **Catalog Numbers**: AC101565000, AC101565010, AC1015652500, AC1015655000
- **Synonym**: Diphenylmethane
- **Company Identification**: Acros Organics N.V.

**SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>EINECS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>119-61-9</td>
<td>BENZOPHENONE</td>
<td>100</td>
<td>204-337-6</td>
</tr>
</tbody>
</table>

**SECTION 3 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

- **Appearance**: White
- **Caution**: The toxicological properties of this material are not fully investigated. May cause eye and skin irritation. May cause respiratory and digestive tract irritation.
- **Potential Health Effects**: Eye: Causes eye irritation. Skin: Causes skin irritation. Animal feeding studies have resulted in liver and bone marrow damage.
- **Target Organ**: None

**SECTION 4 - FIRST AID MEASURES**

- **Eyes**: Flush eyes with plenty of water for at least 15 minutes, lifting the upper and lower lids. Get medical aid.
- **Skin**: Wash skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
- **Inhalation**: Causes respiratory tract irritation. Chronic: Animal feeding studies have resulted in liver and bone marrow damage.

**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 causing a dust explosion.
- **Extinguishing Media**: In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.
- **Autoignition Temperature**: Not available.
- **Flash Point**: 143 deg C (289.40 deg F)
- **NFPA Rating**: Not published.
- **Explosion Limits**: Lower: Not available. Upper: Not available.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- **General Information**: Use proper personal protective equipment as indicated.

**SECTION 7 - HANDLING AND STORAGE**

- **Spills/Leaks**: Vacuum or sweep up material and place in a suitable disposal container. Avoid generating dusty conditions.

**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

- **Engineering Controls**: Use adequate ventilation to keep airborne concentrations low.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- **Physical State**: Solid
- **Appearance**: White
- **Odor**: Persistent rose-like odor.
- **PH**: Not available.
- **Vapor Pressure**: Negligible.
- **Vapor Density**: Not available.
- **Evaporation Rate**: Negligible.
- **Viscosity**: Not available.
- **Boiling Point**: 305 deg C @ 760.00 mm Hg
- **Freezing Point**: -52 deg C
- **Decomposition Temperature**: Not available.
- **Solubility**: Insoluble
- **Specific Gravity/Density**: Not available.
- **Molecular Formula**: C13H12O
- **Molecular Weight**: 182.22

**SECTION 10 - STABILITY AND REACTIVITY**

- **Chemical Stability**: Stable.
- **Conditions to Avoid**: Incompatible materials.
- **Incompatibilities with Other Materials**: Strong oxidizing agents and strong reducing agents.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

- **RTECS**: I Tracks: 119-61-9, D98950000
- **LD50/IC50**: Oral, mouse: 2895 mg/kg; Oral, rat: LD50 = 10 gm/kg; Skin, rabbit: LD50 = 3535 mg/kg.
- **Carcinogenicity**: Benzophenone - Not listed by ACGIH, NIOSH, NTP, or OSHA.
- **Epidemiology**: Not available.
No data available.
Teratogenicity: No data available.
Reproductive Effects: No data available.
Neurotoxicity: No data available.
Mutagenicity: No data available.
Other Studies: No data available.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity: Not available.
Environmental Fate: Not available.
Physical/Chemical: Not available.
Other: Not available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: None listed.
RCRA D-Series Chronic Toxicity Reference Levels: None listed.
RCRA F-Series: None listed.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT
No information available
IMO
Not regulated as a hazardous material.
IATA
Not regulated as a hazardous material.
RID/ADR
Not regulated as a hazardous material.
Canadian TOX
No information available.

**** SECTION 15 - REGULATORY INFORMATION ****

US FEDERAL
TSCA
CAS # 119-61-9 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.
SARA
Section 302 (RQ)
None of the chemicals in this material have an RQ.
Section 302 (TQ)
None of the chemicals in this product have a TQ.
SARA Codes
CAS # 119-61-9: chronic.
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.
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
None of the chemicals in this product are considered highly hazardous by OSHA.

STATE
BENZOPHENONE can be found on the following state right to know lists:
Minnesota
California
No Significant Risk Level:
None of the chemicals in this product are listed.
European/International Regulations

European Labeling in Accordance with EC Directives
Hazard Symbols: Not available.
Risk Phrases:
Safety Phrases:
WGK (Water Danger/Protection)
CAS # 119-61-9: 1
Canada
CAS # 119-61-9 is listed on Canada's DSL/NDSL List.
WHMIS: Not available.
CAS # 119-61-9 is not listed on Canada's Ingredient Disclosure List.
Exposure Limits

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 2/01/1996 Revision #5 Date: 9/02/1997
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 way shall Fisher 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, however arising, even if Fisher has been advised of the possibility of such damages.