Material Safety Data Sheet
Benzophenone

Section 1 - Chemical Product and Company Identification

MSDS Name: Benzophenone
Catalog Numbers: 10556-0000, 10556-0010, 10556-5000, 21968-0000, 21968-5000
Synonyms: Diphenylmethanone; Diphenyl ketone

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium

Company Identification: (USA)
Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01
For information in Europe, call: +32 14 57 52 11
Emergency Number, Europe: +32 14 57 52 99
Emergency Number US: 201-796-7100
CHEMTREC Phone Number, US: 800-424-9300
CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#  Chemical Name: %  EINECS#
119-61-9  Benzophenone  >99%  204-337-6

Hazard Symbols: XI N

Risk Phrases: 36/37/38 50/53

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Irritating to eyes, respiratory system and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects
Eye: Causes eye irritation.
Skin: Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. Ingestion of large amounts may cause gastrointestinal irritation. May cause nausea and vomiting. May be harmful if swallowed.

Inhalation: Causes respiratory tract irritation. May cause drowsiness, unconsciousness, and central nervous system depression. May be harmful if inhaled.

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: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. 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: 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. 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. Use water spray, dry chemical, carbon dioxide, or chemical foam.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8. Vacuum or sweep up material and place into a suitable disposal container.

Spills/Leaks: Avoid generating dusty conditions. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Avoid breathing 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: 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

CAS# 119-61-9:

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.

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: Flakes
- Color: white to off-white
- Odor: rose-like - strong odor
- pH: Not available

Vapor Pressure: 1.3hPa @108 deg C
- Viscosity: Not available

Boiling Point: 305 deg C @760mmHg (581.00°F)
- Freezing/Melting Point: 47 - 49 deg C
- Autoignition Temperature: Not available
- Flash Point: 143 deg C (289.40 deg F)
- Explosion Limits: Lower: Not available
- Explosion Limits: Upper: Not available
- Decomposition Temperature: Not available
- Solubility in water: Insoluble
Specific Gravity/Density:
Molecular Formula: C13H10O
Molecular Weight: 182.22

Section 10 - Stability and Reactivity
Chemical Stability: Stable under normal temperatures and pressures.
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
RTECS:
CAS# 119-61-9: Oral, mouse: LD50 = 2895 mg/kg;
Oral, rat: LD50 = >10 gm/kg;
Skin, rabbit: LD50 = 3535 mg/kg;
Benzophenone - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA
Carcinogenicity: Prop 65.
Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

Section 12 - Ecological Information
Not available

Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information
IATA Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.*
Hazard Class: 9
UN Number: 3077
Packing Group: III
Severe Marine Pollutant

IMO Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class: 9
UN Number: 3077
Packing Group: III

RID/ADR Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class: 9
UN Number: 3077
Packing Group: III
Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI N
Risk Phrases:
   R 36/37/38 Irritating to eyes, respiratory system and skin.
   R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:
   S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
   S 29 Do not empty into drains.
   S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

   CAS# 119-61-9: 1

Canada

   CAS# 119-61-9 is listed on Canada's DSL List

US Federal

TSCA

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

Section 16 - Other Information

MSDS Creation Date: 9/10/1996
Revision #2 Date 11/16/2004
Revisions were made in Sections: General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 the company 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 the company has been advised of the possibility of such damages.

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