1. Product and Company Identification

Company: BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Chemical family: mixture

2. Hazards Identification

Emergency overview

CAUTION:
Prolonged exposure may cause irritation of skin, eyes and mucous membranes.
Inhalation of vapours or aerosols may cause respiratory tract irritation.
High concentrations can have a narcotic effect.
May cause CNS depression.
Contains an IARC Group 2B carcinogen - possibly carcinogenic to humans.
May cause liver and kidney damage.
The statements are based on the properties of the individual components.

State of matter: liquid
Colour: light yellow
Odour: characteristic

Potential health effects

Primary routes of exposure:
Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Irritation / corrosion:
Prolonged exposure to the product can result in irritation of the skin and mucous membranes.

Sensitization:
Skin sensitizing effects were not observed in animal studies. The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic toxicity:

Carcinogenicity: Contains a compound classified as IARC Group 2B (possibly carcinogenic to humans).
Repeated dose toxicity: Repeated exposure may affect certain organs. Damages the kidneys. Damages the liver. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

Potential environmental effects

Degradation / environmental fate: Not readily biodegradable (by OECD criteria). Poorly biodegradable. Literature data. The product has not been tested. The statement has been derived from the properties of the individual components.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Content (W/W)</th>
<th>Chemical name</th>
</tr>
</thead>
<tbody>
<tr>
<td>947-19-3</td>
<td>30.0 - 70.0 %</td>
<td>Methanone, (1-hydroxy)cyclohexylphenyl-</td>
</tr>
<tr>
<td>119-61-9</td>
<td>30.0 - 70.0 %</td>
<td>benzophenone</td>
</tr>
</tbody>
</table>

4. First-Aid Measures

General advice: Immediately remove contaminated clothing.

If inhaled: If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

If on skin: Wash affected areas thoroughly with soap and water. Seek medical attention.

If in eyes: Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed: Rinse mouth and then drink plenty of water. Do not induce vomiting. Seek medical attention if necessary.

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Flash point: 160 °C (DIN 51584)
Autoignition: not determined
Lower explosion limit: not determined
Upper explosion limit: not determined
Flammability: not determined

Suitable extinguishing media: water spray, dry powder, foam

Unsuitable extinguishing media for safety reasons: water jet

Hazards during fire-fighting: harmful vapours
Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

**Protective equipment for fire-fighting:**
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

**Further information:**
The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

### 6. Accidental release measures

**Personal precautions:**
Use personal protective clothing. Keep people away and stay on the upwind side.

**Environmental precautions:**
Do not discharge into drains/surface waters/groundwater.

**Cleanup:**
Spills should be contained, solidified, and placed in suitable containers for disposal.

### 7. Handling and Storage

**Handling**

**General advice:**
Keep away from sources of ignition - No smoking.

**Protection against fire and explosion:**
Take precautionary measures against static discharges.

**Storage**

**General advice:**
Keep container tightly closed and dry; store in a cool place. Protect from direct sunlight.

**Storage stability:**
Storage temperature: > 18 °C
The solids can precipitate below the mentioned temperature, but the liquid can easily be reconstituted by heating above the mentioned temperature.

**Temperature tolerance**
Protect from temperatures below: 18 °C
Characteristics of the product are reversibly changed when falling below the limit temperature.

### 8. Exposure Controls and Personal Protection

**Personal protective equipment**

**Respiratory protection:**
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

**Hand protection:**
Chemical resistant protective gloves

**Eye protection:**
Tightly fitting safety goggles (chemical goggles) and face shield.
Body protection:
Impermeable protective clothing

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form: liquid
Odour: characteristic
Colour: light yellow
pH value: not determined
crystal separation: < 18 °C
Boiling point: > 300 °C
Vapour pressure: 0.047 Pa (20 °C)
Density: approx. 1.1 g/cm3 (20 °C)
Relative density: No data available.
Vapour density: not determined
Partitioning coefficient n-octanol/water (log Pow): Study does not need to be conducted.
Viscosity, dynamic: 90 mPa.s (20 °C)
% volatiles: not determined
Solubility in water: < 0.01 g/l (20 °C)
Miscibility with water: immiscible

10. Stability and Reactivity

Conditions to avoid:
Avoid electro-static discharge.

Substances to avoid:
strong acids, strong bases, strong oxidizing agents

Hazardous reactions:
No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.
Decomposes on UV-radiation.

Thermal decomposition:
> 300 °C

Oxidizing properties:
not fire-propagating

11. Toxicological information

Acute toxicity

Information on: benzophenone
Assessment of acute toxicity:
Of low toxicity after short-term skin contact. Virtually nontoxic after a single ingestion.
Oral:

Information on: benzophenone
Type of value: LD50
Species: rat
Value: > 2,000 mg/kg (similar to OECD guideline 401)

Inhalation:
Type of value: LC50
Species: rat
Exposure time: 4 h
not determined

Dermal:
Type of value: LD50
Species: rat
not determined

Information on: benzophenone
Type of value: LD50
Species: rabbit
Value: 3,535 mg/kg

Irritation / corrosion

Information on: benzophenone
Assessment of irritating effects:
Not irritating to eyes and skin.

Skin:

Information on: benzophenone
Species: rabbit
Result: non-irritant
Method: OECD Guideline 404

Eye:

Information on: benzophenone
Species: rabbit
Result: non-irritant
Method: OECD Guideline 405

Sensitization

Information on: benzophenone
Assessment of sensitization:
Skin sensitizing effects were not observed in animal studies.

No data available concerning sensitizing effects.

Information on: benzophenone
Species: guinea pig
Result: Non-sensitizing.
Method: similar to OECD guideline 406
Repeated dose toxicity

Information on: benzophenone
Assessment of repeated dose toxicity:
Repeated oral exposure may affect certain organs. Damages the kidneys. Damages the liver.

Genetic toxicity

Information on: benzophenone
The substance was not mutagenic in bacteria. The substance was not mutagenic in a test with mammals. The substance was not mutagenic in mammalian cell culture.

Carcinogenicity

Information on: benzophenone
IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Information on: benzophenone
The results of animal studies gave no indication of a fertility impairing effect.

Development:

Information on: benzophenone
The substance did not cause malformations in animal studies; however, toxicity to development was observed at high doses that were toxic to the parental animals.

Aspiration Hazard:

No aspiration hazard expected.

Other Information:

Solvent vapours have a narcotic effect if inhaled in high concentrations. May cause central nervous system depression with symptoms of headache, nausea, vomiting and dizziness.

12. Ecological Information

Fish

Acute:
Fish/LC50 (96 h):
not determined

Chronic:

No data available.

Aquatic invertebrates

Acute:
daphnia/LC50 (48 h):
not determined
Chronic:
No data available.

Aquatic plants
Toxicity to aquatic plants:
algae/EC50 (72 h):
not determined

Microorganisms
Toxicity to microorganisms:
bacteria/EC50 (0.5 h):
not determined

Other adverse effects:
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.
Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:
Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.

Container disposal:
Recommend crushing, puncturing or other means to prevent unauthorized use of used containers. Dispose of in accordance with national, state and local regulations.

14. Transport Information

Land transport
USDOT
Not classified as a dangerous good under transport regulations

Sea transport
IMDG
Not classified as a dangerous good under transport regulations

Air transport
IATA/ICAO
Not classified as a dangerous good under transport regulations

15. Regulatory Information

VOC content:
not determined

Federal Regulations
16. Other Information

NFPA Hazard codes:
Health: 2  Fire: 1  Reactivity: 0  Special: none

HMIS III rating
Health: 2  Flammability: 1  Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:
BASF NA Product Regulations
msds@basf.com
MSDS Prepared on: 2012/07/24

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