



WUHAN XINRU CHEMICAL INDUSTRY CO., LTD

1-2805,Fuxinghuiyu Fuxing City, Jiangnan District,Wuhan,China
Tel: 86-27-59843600/59843601 Fax:86-27-66660488 <http://www.whxinru.cn>

MATERIAL SAFETY DATA SHEET

BENZOPHENONE-2

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Common name: Benzophenone-2

Manufacturer: WUHAN XINRU CHEMICAL INDUSTRY CO., LTD

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SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS No.: 131-55-5

EINECS No.: 205-028-9

Chemical name: 2, 2', 4, 4'-Tetrahydroxybenzophenone;

Synonyms: Benzophenone-2; BP-2

SECTION 3 - HAZARDS IDENTIFICATION

Respiratory tract irritation: May cause digestive tract irritation. May be harmful if swallowed.

Target Organs: None known.

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

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

Chronic: No information found.

SECTION 4 - FIRST AID MEASURES

General advice: Remove contaminated clothing.

Eyes: Immediately 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 soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.



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Ingestion: Get medical aid. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

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. 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.

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits lower: Not available.

Explosion Limits upper: Not available.

NFPA Rating: (estimated) Health: 2; Flammability: 0; Reactivity: 0

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. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

SECTION 7 - HANDLING and STORAGE

Handling: Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.



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SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal protective equipment

Respiratory protection:	If breathable dust is formed.
Hand protection:	protective gloves
Eye protection:	safety glasses with side-shields
General safety and hygiene measures:	The usual precautions for the handling of chemicals must be observed.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Solid
Form:	Crystal - powder
Color:	Pale greenish yellow
Odor:	No data available
pH:	No data available
Melting point/freezing point:	195-203°C
Boiling Point/Range:	No data available
Flash Point:	No data available
Explosive limits	
Lower:	No data available
Upper:	No data available
Density:	No data available
Solubility:	Soluble in: Methanol

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid:	Incompatible materials, dust generation, excess heat.
Incompatibilities with Other Materials:	Strong bases, strong oxidizing agents.
Hazardous Decomposition Products:	Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization:	Has not been reported

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity	
LD50/oral/rat:	1230 mg/kg (approx.)
Primary skin irritation/rabbit/:	non-irritant
Primary mucous membrane irritation/rabbits' eyes/Draize test:	non-irritant



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Other information: Ames-test: no mutagenic effect
Experiences in humans: Danger of skin sensitization on repeated contact.

SECTION 12 - ECOLOGICAL INFORMATION

Elimination information

Test method: OECD 301E/ EEC 84/449, C.3
Method of analysis: DOC reduction
Degree of elimination: < 70%
Evaluation: biodegradable
Test method: OECD 302B/ ISO 9888/ EEC 88/302, C
Method of analysis: DOC reduction
Degree of elimination: > 70%
Evaluation: easy to eliminate

Behaviour and environmental fate

Inhibition of degradation activity in activated sludge is possible when feeding into biological sewage works, depending on local conditions and concentrations.

Inhibition of respiration in activated sludge EC20 34 mg/l
(ISO 8192B/ OECD 210/ EEC 88/302 C).

Ecotoxic effects

Toxicity to fish (acute):

Test method: DIN 38 412, L1, L15

LC50/Leuciscus idus/: > 22 < 46 mg/l/96h

No Observed Effect Concentration (NOEC): 10 mg/l

EC/LC0(48 h): 10 mg/l

Toxicity to bacteria: Pseudomonas putida:

Test method: DIN 38412 Part 27 (draft)

EC/LC10 (0.5 h): 100 mg/l

EC/LC50 (0.5 h): 5800 mg/l

EC/LC90 (0.5 h): > 10 000 mg/l

Further ecological information:

Do not discharge product into natural waters without pretreatment (biological treatment plant). COD-Value: 1710 mg/g

SECTION 13 - DISPOSAL CONSIDERATIONS

Product: Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.



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SECTION 14 - TRANSPORT INFORMATION

IATA: Not regulated as a hazardous material.

IMO: Not regulated as a hazardous material.

RID/ADR: Not regulated as a hazardous material.

SECTION 15 - REGULATORY INFORMATION

US FEDERAL

TSCA :

CAS# 131-55-5 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.

Section 302 (RQ): None of the chemicals in this material have an RQ.

Section 302 (TPQ): 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 depletors.

This material does not contain any Class 2 Ozone depletors.

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:

This product is not present on state lists from CA, PA, MN, MA,
FL, or NJ.

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: XN

Risk Phrases: R 22 Harmful if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.



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Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection): No information available.

United Kingdom Occupational Exposure

Limits Canada

This product is listed on Canada's DSL List.

This product has a WHMIS classification of D2B.

This product is not listed on Canada's Ingredient Disclosure List.

SECTION 16 - ADDITIONAL INFORMATION

MSDS Creation Date: 7/16/2000 Revision #4 Date: 5/1/2015

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 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 damage.