

SAFETY DATA SHEET

Benzil

Version 2 · issued 12 October 2026

1. IDENTIFICATION**Product Identifiers****Other Names** Diphenylethanedione, Dibenzoyl**Product Number(s)** C030**CAS Number** 134-81-6**Recommended use of the chemical and restriction on use**

Laboratory use. Laboratory chemicals. Manufacture of substances

Company Details

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity - single exposure (Category 3), H335

Label Elements**Harmful / irritant****Signal Words**

Warning

Hazard Statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Precautionary Statement(s)

Prevention

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Primary route(s) of entry

inhalation of dust or airborne particles.

Human Health**Inhalation**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor if you feel unwell

Ingestion

Not available.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing

Environment

No further relevant information available.

Other Hazards

None identified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Benzil	134-81-6	>95%	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335

4. FIRST AID MEASURES

Ingestion	Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact	Wash off with soap and plenty of water. Consult a physician.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Other Information	Consult a physician. Show this safety data sheet to the doctor in attendance.

5. FIREFIGHTING MEASURES

Suitable extinguishing equipment	
Fire	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
HAZCHEM	Not available.
Special protective equipment and precautions for fire fighters	
Wear self contained breathing apparatus for fire fighting if necessary.	
Special hazards arising from the substance or mixture: Carbon oxides	

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
Environmental precautions	Do not let product enter drains.
Methods and materials for containment and clean up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal

7. HANDLING AND STORAGE

Precautions for safe handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.
Conditions for safe storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards	
Engineering controls	Contains no substances with occupational exposure limit values. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye and face protection	Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES**General information**

Appearance	Light yellow, dark yellow crystalline
Odour	Odorless
pH	Not available.
Vapour Pressure	Not available.
Density	Not available.
Boiling Point	346 - 348 °C / 654.8 - 658.4 °F
Melting Point	94 - 97 °C / 201.2 - 206.6 °F
Solubility	0.5 g/l @20°C
Specific Gravity of Density	Not available.
Flash Point	180 °C - closed cup
Flammable (Explosive) Limits	Not available.
Ignition Temperature	Not available.
Formula	C14H10O2

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No further relevant information available.
Conditions to avoid	No further relevant information available.
Incompatible materials	Strong oxidising agents

11. TOXICOLOGICAL INFORMATION

Acute effects	LD50 Oral - mouse - > 3,000 mg/kg Remarks: Behavioral: Somnolence (general depressed activity).
Eye contact	Serious eye damage/eye irritation Eyes - rabbit Result: Moderate eye irritation - 24 h
Skin contact	Skin corrosion/irritation
Ingestion	No further relevant information available.

Inhalation	May cause respiratory irritation.
Toxicity and irritation	No further relevant information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

General information

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

ADG label required	
HAZCHEM	Not available.
UN Number	None.
Proper shipping name	Not regulated.
Transport hazard class	0
Packing group	None.
Environmental hazard	No information available.
Special precautions for users	No information available.
Additional information	No information available.

15. REGULATORY INFORMATION

Poisons Schedule Number	No information available.
Other Information	No further information available.

16. OTHER INFORMATION

SDS preparation date	12 October 2026
Comments	This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
References	ThermoFisher Scientific SDS "Benzil". 18/12/2025 https://www.fishersci.com/store/msds?partNumber=AC105411000&productDescription=BENZIL+100GR&vendorId=VN00032119&countryCode=US&language=en

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...