

Safety data sheet according to UK REACH

Printing 29.01.2025

version number 14 (replaces version 13)

Revision: 29.01.2025

SECTION 1: Identification of the substance/mixture and of the company/undertaking

*1.1 Product identifier

***Trade name:** MELTING POINT STANDARD BENZIL 94 °C to 96 °C

***Article number:** BMP0955

***CAS Number:**

134-81-6

***EC number:**

205-157-0

*Registration number

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

*1.2 Relevant identified uses of the substance or mixture and uses advised against

***Product category** For experiments, research, or testing purposes only. Prohibited of use for other purposes.

***Application of the substance / the mixture** Laboratory Chemicals

*1.3 Details of the supplier of the safety data sheet

***Manufacturer/Supplier:** See Below

*Manufacturer:

Reagecon Diagnostics Ltd.
Shannon Free Zone,
Shannon,
Co. Clare,
Ireland.
Tel +353 61 472622
Fax +353 61 472642

*Supplier:

BÜCHI Labortechnik AG
Meierseggsstrasse 40
CH - 9230 Flawil
Telephone: +41 71 394 63 63
FAX: +41 71 394 65 65
Email: buchi@buchi.com
Internet: www.buchi.com

***Further information obtainable by contacting:** sds@reagecon.ie

*1.4 Emergency telephone number:

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

For Hazardous Materials [or Dangerous Goods] Incident

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC

For Ireland call +(353)-19014670

For Outside Ireland call +1 703-741-5970 / 1-800-424-9300 CCN849800

SECTION 2: Hazards identification

*2.1 Classification of the substance or mixture

***Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

*2.2 Label elements

***Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the GB CLP regulation.

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***Hazard pictograms**


GHS07

***Signal word** Warning

***Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

***Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P337+P313 If eye irritation persists: Get medical advice/attention.

***2.3 Other hazards**
***Results of PBT and vPvB assessment**

*PBT: Not applicable.

*vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

***3.1 Substances**
***CAS No. Description**

CAS: 134-81-6 benzil

***Identification number(s)**

*EC number: 205-157-0

SECTION 4: First aid measures

***4.1 Description of first aid measures**

*After inhalation: In case of unconsciousness place patient stably in side position for transportation.

***After skin contact:**

Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

***After eye contact:**

Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse.. If symptoms persist, consult a doctor.

***After swallowing:**

Do not induce vomiting; call for medical help immediately. Rinse mouth thoroughly with water and give large amounts of water to drink. Never give anything by mouth to an unconscious person.

*4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

*4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Firefighting measures

*5.1 Extinguishing media

*Suitable extinguishing agents:

Indications shall be given whether any extinguishing media are inappropriate for a particular situation involving the substance or mixture

Use fire extinguishing methods suitable to surrounding conditions.

*5.2 Special hazards arising from the substance or mixture

No further relevant information available.

*5.3 Advice for firefighters

*Protective equipment:

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers

SECTION 6: Accidental release measures

*6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment as described in Section 8 below. Keep unprotected persons away.

*6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

*6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

*6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

*7.1 Precautions for safe handling

Keep receptacles tightly sealed.

No special precautions are necessary if used correctly.

*Information about fire - and explosion protection:

No special measures required.

*7.2 Conditions for safe storage, including any incompatibilities

*Storage:

*Requirements to be met by storerooms and receptacles:

No special requirements.

*Information about storage in one common storage facility:

Not required.

*Further information about storage conditions:

Keep receptacle tightly sealed.

*7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

*8.1 Control parameters

*Ingredients with limit values that require monitoring at the workplace:

Not required.

*Additional information:

The lists valid during the making were used as basis.

*8.2 Exposure controls

*Appropriate engineering controls

No further data; see section 7.

*Individual protection measures, such as personal protective equipment

*General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

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***Respiratory protection:**

Not required.

Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as back up to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

***Hand protection**


Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Always ensure that gloves are inspected before use.

Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

***Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

***Penetration time of glove material**

In the absence of data above, the exact break through time has to be sourced from the manufacturer of the protective gloves and has to be observed.

***Eye/face protection**


Tightly sealed goggles: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

SECTION 9: Physical and chemical properties

***9.1 Information on basic physical and chemical properties**
***General Information**
***Physical state**

Liquid

***Colour:**

According to product specification

***Odour:**

Characteristic

***Odour threshold:**

Not determined.

***Melting point/freezing point:**

94 °C

***Boiling point or initial boiling point and boiling range**

346 °C

***Flammability**

Product is not flammable.

***Lower and upper explosion limit**
***Lower:**

Not determined.

***Upper:**

Not determined.

***Flash point:**

Not applicable.

***Decomposition temperature:**

Not determined.

***pH**

Not applicable.

***Viscosity:**
***Kinematic viscosity**

Not applicable.

***Dynamic:**

Not applicable.

***Solubility**
***water:**

Insoluble.

***Partition coefficient n-octanol/water (log value)**

Not determined.

***Vapour pressure at 128 °C:**

1.3 hPa

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***Density and/or relative density**

*Density at 20 °C:	1.117 g/cm ³
*Relative density	Not determined.
*Vapour density	Not applicable.
*Particle characteristics	Not applicable.

***9.2 Other information**

*Appearance:	
*Form:	Powder
*Important information on protection of health and environment, and on safety.	
*Ignition temperature:	Not determined.
*Explosive properties:	Product does not present an explosion hazard.
*Molecular weight	210.23 g/mol
*Change in condition	
*Evaporation rate	Not applicable.

***Information with regard to physical hazard classes**

*Explosives	Void
*Flammable gases	Void
*Aerosols	Void
*Oxidising gases	Void
*Gases under pressure	Void
*Flammable liquids	Void
*Flammable solids	Void
*Self-reactive substances and mixtures	Void
*Pyrophoric liquids	Void
*Pyrophoric solids	Void
*Self-heating substances and mixtures	Void
*Substances and mixtures, which emit flammable gases in contact with water	Void
*Oxidising liquids	Void
*Oxidising solids	Void
*Organic peroxides	Void
*Corrosive to metals	Void
*Desensitised explosives	Void

SECTION 10: Stability and reactivity

- *10.1 Reactivity** No further relevant information available.
- *10.2 Chemical stability**
- *Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- *10.3 Possibility of hazardous reactions** No dangerous reactions known.
- *10.4 Conditions to avoid** No further relevant information available.
- *10.5 Incompatible materials:** No further relevant information available.
- *10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- *11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- *Acute toxicity** Based on available data, the classification criteria are not met.

***LD/LC50 values relevant for classification:**

CAS: 134-81-6 benzil

Oral LD50 2,710 mg/kg (rat)

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- ***Primary irritant effect:**
- ***Skin corrosion/irritation** Causes skin irritation.
- ***Serious eye damage/irritation** Causes serious eye irritation.
- ***11.2 Information on other hazards**

***Endocrine disrupting properties**

Substance is not listed.

SECTION 12: Ecological information

- ***12.1 Toxicity**
- ***Aquatic toxicity:** No further relevant information available.
- ***12.2 Persistence and degradability** No further relevant information available.
- ***12.3 Bioaccumulative potential** No further relevant information available.
- ***12.4 Mobility in soil** No further relevant information available.
- ***12.5 Results of PBT and vPvB assessment**
- ***PBT:** Not applicable.
- ***vPvB:** Not applicable.
- ***12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- ***12.7 Other adverse effects**
- ***Additional ecological information:**
- ***General notes:**
Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- ***13.1 Waste treatment methods**
- ***Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- ***Uncleaned packaging:**
- ***Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|--|-----------------|
| * 14.1 UN number or ID number
* ADR, IMDG, IATA | Void |
| * 14.2 UN proper shipping name
* ADR, IMDG, IATA | Void |
| * 14.3 Transport hazard class(es)
* ADR, IMDG, IATA
* Class | Void |
| * 14.4 Packing group
* ADR, IMDG, IATA | Void |
| * 14.5 Environmental hazards:
* Marine pollutant: | No |
| * 14.6 Special precautions for user | Not applicable. |

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***14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

***UN "Model Regulation":**

Void

SECTION 15: Regulatory information

***15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
***Poisons Act**
***Regulated explosives precursors**

Substance is not listed.

***Regulated poisons**

Substance is not listed.

***Reportable explosives precursors**

Substance is not listed.

***Reportable poisons**

Substance is not listed.

***Directive 2012/18/EU**
***Named dangerous substances - ANNEX I** Substance is not listed.

***National regulations:**
***Waterhazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.

***15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

***Department issuing SDS:** Health and Safety

***Contact:** sds@reagecon.ie

***Abbreviations and acronyms:**

UK REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

***NO**

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