

## 1 Identification

**\*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

**\*Application of the substance / the mixture** Laboratory chemicals

**\*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](mailto:buchi@buchi.com)

Internet: [www.buchi.com](http://www.buchi.com)

**\*Information department:** [sds@reagecon.ie](mailto:sds@reagecon.ie)

**\*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

## 2 Hazard identification

**\*Classification of the substance or mixture**



GHS07

Skin Irritation - Category 2 H315 Causes skin irritation.

Eye Irritation - Category 2A H319 Causes serious eye irritation.

**\*Label elements**

**\*GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**\*Hazard pictograms**



GHS07



# Safety Data Sheet

according to HPR, Schedule 1

Printing date 04/10/2025

Reviewed on 04/10/2025

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**\*Signal word** Warning**\*Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**\*Precautionary statements**

Wash thoroughly after handling.

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

If on skin: Wash with plenty of water.

Specific treatment (see on this label).

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

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If eye irritation persists: Get medical advice/attention.

**\*Classification system:****\*NFPA ratings (scale 0-4)**

Health = 2

Fire = 0

Reactivity = 0

## 3 Composition/Information on ingredients

**\*Chemical characterization: Substances****\*CAS No. Description**

CAS: 134-81-6 benzil

**\*Identification number(s)****\*EC number:** 205-157-0

## 4 First-aid measures

**\*Description of first aid measures****\*After inhalation:** In case of unconsciousness place patient stably in side position for transportation.**\*After skin contact:** Immediately wash with water and soap and rinse thoroughly.**\*After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**\*After swallowing:** Do not induce vomiting; immediately call for medical help.**\*Information for doctor:****\*Most important symptoms and effects, both acute and delayed** No further relevant information available.**\*Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

## 5 Fire-fighting measures

**\*Extinguishing media****\*Suitable extinguishing agents:** Use fire fighting measures that suit the environment.**\*Special hazards arising from the substance or mixture** No further relevant information available.**\*Advice for firefighters****\*Protective equipment:** No special measures required.

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### 6 Accidental release measures

**\*Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment. Keep unprotected persons away.*

**\*Environmental precautions: Do not allow to enter sewers/ surface or ground water.**

**\*Methods and material for containment and cleaning up: Pick up mechanically.**

**\*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.*

### 7 Handling and storage

**\*Handling:**

**\*Precautions for safe handling**

*Keep receptacles tightly sealed.*

*No special precautions are necessary if used correctly.*

**\*Information about protection against explosions and fires: No special measures required.**

**\*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.**

**\*Specific end use(s) No further relevant information available.**

### 8 Exposure controls/ Personal protection

**\*Additional information about design of technical systems: No further data; see section 7.**

**\*Control parameters**

**\*Components with limit values that require monitoring at the workplace: Not required.**

**\*Additional information: The lists that were valid during the creation were used as basis.**

**\*Exposure controls**

**\*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.*

**\*Breathing equipment:**

*Not required.*

*Suitable respiratory protective device recommended.*

**\*Protection of hands:**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

**\*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. As the product is a preparation of several substances, the*

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resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**\*Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**\*Eye protection:**



Tightly sealed goggles

### 9 Physical and chemical properties

**\*Information on basic physical and chemical properties**

**\*General Information**

**\*Appearance:**

**Form:** Powder  
**Color:** According to product specification

**\*Odor:** Characteristic

**\*Odor threshold:** Not determined.

**\*pH-value:** Not applicable.

**\*Change in condition**

**Melting point/Melting range:** 94 °C  
**Boiling point/Boiling range:** 346 °C

**\*Flash point:** Not applicable.

**\*Flammability:** Product is not flammable.

**\*Decomposition temperature:** Not determined.

**\*Ignition temperature:** Not determined.

**\*Danger of explosion:** Product does not present an explosion hazard.

**\*Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

**\*Vapor pressure at 128 °C:** 1.3 hPa

**\*Density at 20 °C:** 1.117 g/cm<sup>3</sup>

**\*Relative density** Not determined.

**\*Vapor density** Not applicable.

**\*Evaporation rate** Not applicable.

**\*Solubility in / Miscibility with**

**Water:** Insoluble.

**\*Partition coefficient (n-octanol/water):** Not determined.

**\*Viscosity:**

**Dynamic:** Not applicable.  
**Kinematic:** Not applicable.

**Solids content:** 100.0 %

**\*Other information** No further relevant information available.

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### 10 Stability and reactivity

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

### 11 Toxicological information

\***Information on toxicological effects**\***Acute toxicity:**\***LD/LC50 values that are relevant for classification:**

CAS: 134-81-6 benzil

Oral LD50 2,710 mg/kg (rat)

\***Primary irritant effect:**\***on the skin:** Irritant to skin and mucous membranes.\***on the eye:** Irritating effect.\***Sensitization:** No sensitizing effects known.\***Additional toxicological information:**\***Carcinogenic categories**\***IARC (International Agency for Research on Cancer)**

Substance is not listed.

\***NTP (National Toxicology Program)**

Substance is not listed.

### 12 Ecological information

\***Toxicity**\***Aquatic toxicity:** No further relevant information available.\***Persistence and degradability** No further relevant information available.\***Behavior in environmental systems:**\***Bioaccumulative potential** No further relevant information available.\***Mobility in soil** No further relevant information available.\***Additional ecological information:**\***General notes:**

Water hazard class 2 (Self-assessment): 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.

\***Results of PBT and vPvB assessment**\***PBT:** Not applicable.\***vPvB:** Not applicable.\***Other adverse effects** No further relevant information available.

### 13 Disposal considerations

\***Waste treatment methods**\***Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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**\*Uncleaned packagings:**

**\*Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

**\*UN-Number**

**\*DOT/TDG, ADR, IMDG, IATA** Void

**\*UN proper shipping name**

**\*DOT/TDG, ADR, IMDG, IATA** Void

**\*Transport hazard class(es)**

**\*DOT/TDG, ADR, IMDG, IATA**

**\*Class** Void

**\*Packing group**

**\*DOT/TDG, ADR, IMDG, IATA** Void

**\*Environmental hazards:**

**\*Marine pollutant:** No

**\*Special precautions for user** Not applicable.

**\*Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

**\*UN "Model Regulation":** Void

### 15 Regulatory information

**\*Safety, health and environmental regulations/legislation specific for the substance or mixture**

**\*SARA Section 355 (extremely hazardous substances)**

Substance is not listed.

**\*SARA Section 313 (specific toxic chemical listings)**

Substance is not listed.

**\*TSCA (Toxic Substances Control Act)**

ACTIVE

**\*MAK (German Maximum Workplace Concentration)**

Substance is not listed.

**\*GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

**\*Hazard pictograms**



GHS07

**\*Signal word** Warning

**\*Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

**\*Precautionary statements**

Wash thoroughly after handling.

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

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*If on skin: Wash with plenty of water.*

*Specific treatment (see on this label).*

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

*If skin irritation occurs: Get medical advice/attention.*

*Take off contaminated clothing and wash it before reuse.*

*If eye irritation persists: Get medical advice/attention.*

**\*National regulations:**

**\*Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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

### 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

**\*Date of the latest revision of the safety data sheet** 04/10/2025 / 13

**\*Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

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

NFPA: National Fire Protection Association (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

**\*\* Data compared to the previous version altered.**

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