

10.10.2023

Kit components

Product code	Description
11055019	Melting Point Standard Set Benzil, Phenolphthalein, 4-Methoxybenzoic acid

Components:

BMP0955	MELTING POINT STANDARD BENZIL + 95°C
BMP1845	MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C
BMP26055	MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

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

***1.1 Product identifier**

***Trade name:** MELTING POINT STANDARD BENZIL + 95°C

***Article number:** BMP0955

***CAS Number:**

134-81-6

***EC number:**

205-157-0

***Index number:**

609-006-00-3

***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.

***UFI:** Q5F0-D091-7006-YXK9

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

No further relevant information available.

***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: schweiz@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.

(Contd. on page 2)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C

(Contd. of page 1)

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

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

***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

***Index number:** 609-006-00-3

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.

(Contd. on page 3)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C

(Contd. of page 2)

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 item 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.

(Contd. on page 4)

IE



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C

(Contd. of page 3)

***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.

***Eyeface 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

(Contd. on page 5)

IE



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C

(Contd. of page 4)

***Density and/or relative density**

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

***9.2 Other information**

*Appearance:	
*Form:	Powder
*Important information on protection of health and environment, and on safety.	
*Auto-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)

- *Skin corrosion/irritation** Causes skin irritation.

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C

(Contd. of page 5)

- ***Serious eye damage/irritation** Causes serious eye irritation.
- ***Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- ***Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- ***Carcinogenicity** Based on available data, the classification criteria are not met.
- ***Reproductive toxicity** Based on available data, the classification criteria are not met.
- ***STOT-single exposure** Based on available data, the classification criteria are not met.
- ***STOT-repeated exposure** Based on available data, the classification criteria are not met.
- ***Aspiration hazard** Based on available data, the classification criteria are not met.
- ***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.
- ***European waste catalogue**
- HP4 Irritant - skin irritation and eye damage
- ***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

(Contd. on page 7)

IE



Safety data sheet

according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C

(Contd. of page 6)

*14.4 Packing group	
*ADR, IMDG, IATA	Void
*14.5 Environmental hazards:	
*Marine pollutant:	No
*14.6 Special precautions for user	Not applicable.
*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

*Directive 2012/18/EU

*Named dangerous substances - ANNEX I Substance is not listed.

*DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

*REGULATION (EU) 2019/1148

*Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

*Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

*Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

*Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

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

*Date of previous version: 31.08.2023

*Version number of previous version: 11

*Abbreviations and acronyms:

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

(Contd. on page 8)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 12 (replaces version 11)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD BENZIL + 95°C*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**

(Contd. of page 7)

IE



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

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

***1.1 Product identifier**

***Trade name:** MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

***Article number:** BMP1845

***CAS Number:**

100-09-4

***EC number:**

202-818-5

***Index number:**

613-086-00-5

***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.

***UFI:** C8F0-V0YE-H00Q-M95C

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

No further relevant information available.

***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

Meierseggrasse 40

CH - 9230 Flawil

Telephone: +41 71 394 63 63

FAX: +41 71 394 65 65

Email: schweiz@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**

The substance is not classified, according to the CLP regulation.

***2.2 Label elements**

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

***Hazard pictograms** Void

***Signal word** Void

***Hazard statements** Void

(Contd. on page 2)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

(Contd. of page 1)

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: 100-09-4 p-anisic acid

Identification number(s)**EC number:** 202-818-5***Index number:** 613-086-00-5

SECTION 4: First aid measures

4.1 Description of first aid measures**General information:** No special measures required.***After inhalation:**

Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.

After skin contact:** Generally the product does not irritate the skin.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. Get medical attention if symptoms persist.

After swallowing:** Call for a doctor immediately.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.

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** Not required.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.

(Contd. on page 3)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

See Section 13 for disposal information.

(Contd. of page 2)

SECTION 7: Handling and storage

***7.1 Precautions for safe handling** No special measures required.

***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:** None.

***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 item 7.

***Individual protection measures, such as personal protective equipment**

***General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

***Respiratory protection:** Not required.

***Hand protection**

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.

***Eyeface protection** Not required.

SECTION 9: Physical and chemical properties

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

***General Information**

***Physical state**

Liquid

***Colour:**

White

***Odour:**

Characteristic

***Odour threshold:**

Not determined.

***Melting point/freezing point:**

182-188 °C

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

275-280 °C

***Flammability**

Product is not flammable.

(Contd. on page 4)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

(Contd. of page 3)

Lower and upper explosion limit**Lower:** Not determined.***Upper:** Not determined.***Flash point:** 185 °C***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:** Not applicable.***Density and/or relative density*****Density at 20 °C:** 1.23 g/cm³***Relative density** Not determined.***Vapour density** Not applicable.***Particle characteristics** See item 3.***9.2 Other information*****Appearance:*****Form:** Powder***Important information on protection of health and environment, and on safety.*****Auto-ignition temperature:** Not determined.***Explosive properties:** Product does not present an explosion hazard.***Molecular weight** 152.15 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.

(Contd. on page 5)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

(Contd. of page 4)

***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.

***Skin corrosion/irritation** Based on available data, the classification criteria are not met.

***Serious eye damage/irritation** Based on available data, the classification criteria are not met.

***Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

***Germ cell mutagenicity** Based on available data, the classification criteria are not met.

***Carcinogenicity** Based on available data, the classification criteria are not met.

***Reproductive toxicity** Based on available data, the classification criteria are not met.

***STOT-single exposure** Based on available data, the classification criteria are not met.

***STOT-repeated exposure** Based on available data, the classification criteria are not met.

***Aspiration hazard** Based on available data, the classification criteria are not met.

***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) (Assessment by list): 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** Smaller quantities can be disposed of with household waste.

***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

(Contd. on page 6)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

(Contd. of page 5)

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.

***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**Directive 2012/18/EU*****Named dangerous substances - ANNEX I** Substance is not listed.***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

REGULATION (EU) 2019/1148**Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

***Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

***Regulation (EC) No 273/2004 on drug precursors**

Substance is not listed.

***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

National regulations:**Waterhazard class:** Water hazard class 3 (Assessment by list): 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 SafetyContact:** sds@reagecon.ie***Date of previous version:** 31.08.2023***Version number of previous version:** 12

(Contd. on page 7)

IE



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 13 (replaces version 12)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD 4-METHOXYBENZOIC ACID + 182 to + 184°C

(Contd. of page 6)

Abbreviations and acronyms: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)**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative****NO**

IE



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

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

***1.1 Product identifier**

***Trade name:** MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

***Article number:** BMP26055

***CAS Number:**

77-09-8

***EC number:**

201-004-7

***Index number:**

604-076-00-1

***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.

***UFI:** YCF0-D0NT-U006-9MRE

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

No further relevant information available.

***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: schweiz@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**



GHS08 health hazard

Muta. 2 H341 Suspected of causing genetic defects.

Carc. 1B H350 May cause cancer.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 1)

Repr. 2 H361f Suspected of damaging fertility.

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

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

***Hazard pictograms**

GHS08

Signal word Danger**Hazard-determining components of labelling:**

phenolphthalein

***Hazard statements**

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

***Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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: 77-09-8 phenolphthalein

Identification number(s)**EC number:** 201-004-7***Index number:** 604-076-00-1***Specific concentration limits** Carc. 1B; H350: C ≥ 1 %***SVHC**

CAS: 77-09-8 phenolphthalein

SECTION 4: First aid measures***4.1 Description of first aid measures*****After inhalation:**

Provide fresh air, warmth and rest. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Obtain medical attention if any discomfort continues.

After skin contact:** Generally the product does not irritate the skin.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. Get medical attention if symptoms persist.

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 2)

***After swallowing:** If symptoms persist consult doctor.

***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.

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:**

Dispose contaminated material as waste according to item 13.

***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** Open and handle receptacle with care.

***Information about fire - and explosion protection:** Keep respiratory protective device available.

***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:** None.

***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 item 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

(Contd. on page 4)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 3)

Wash hands before breaks and at the end of work.

Store protective clothing separately.

***Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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.

***Eyeface 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:**

261-263 °C

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

Undetermined.

***Flammability**

Product is not flammable.

***Lower and upper explosion limit**

***Lower:**

Not determined.

***Upper:**

Not determined.

***Flash point:**

Not applicable.

***Ignition temperature:**

397 °C

***Decomposition temperature:**

Not determined.

***pH**

Not applicable.

***Viscosity:**

***Kinematic viscosity**

Not applicable.

***Dynamic:**

Not applicable.

(Contd. on page 5)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 4)

*Solubility	
*water at 20 °C:	0.00336 g/l
*Partition coefficient n-octanol/water (log value)	Not determined.
*Vapour pressure:	Not applicable.
*Density and/or relative density	
*Density at 20 °C:	1.117 g/cm ³
*Relative density	Not determined.
*Vapour density	Not applicable.
*Particle characteristics	See item 3.
*9.2 Other information	
*Appearance:	
*Form:	Powder
*Important information on protection of health and environment, and on safety.	
*Auto-ignition temperature:	Not determined.
*Explosive properties:	Product does not present an explosion hazard.
*Molecular weight	318.33 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.
- *Skin corrosion/irritation Based on available data, the classification criteria are not met.

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 5)

- ***Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- ***Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- ***Germ cell mutagenicity** Suspected of causing genetic defects.
- ***Carcinogenicity** May cause cancer.
- ***Reproductive toxicity** Suspected of damaging fertility.
- ***STOT-single exposure** Based on available data, the classification criteria are not met.
- ***STOT-repeated exposure** Based on available data, the classification criteria are not met.
- ***Aspiration hazard** Based on available data, the classification criteria are not met.
- ***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.
- ***European waste catalogue**

HP7	Carcinogenic
HP10	Toxic for reproduction
HP11	Mutagenic

- ***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

(Contd. on page 7)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 6)

***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.

***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**

*Directive 2012/18/EU

*Named dangerous substances - ANNEX I Substance is not listed.

*REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 28

***DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

*REGULATION (EU) 2019/1148

***Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

*Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

*Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

***Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

Substance is not listed.

*National regulations:

*Information about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

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

*Other regulations, limitations and prohibitive regulations

*Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 77-09-8 phenolphthalein

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

(Contd. on page 8)



Safety data sheet
according to 1907/2006/EC, Article 31

Printing 10.10.2023

version number 15 (replaces version 14)

Revision: 10.10.2023

Trade name: MELTING POINT STANDARD PHENOLPHTHALEIN + 260°C

(Contd. of page 7)

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

***Date of previous version:** 31.08.2023

***Version number of previous version:** 14

***Abbreviations and acronyms:**

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)

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Muta. 2: Germ cell mutagenicity – Category 2

Carc. 1B: Carcinogenicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

***NO**

IE