

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

1 Identification

***Product identifier**

***Trade name:** *pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)*

***Article number:** PHCAL10

***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:**

PyroScience GmbH

Hubertusstr. 35

52064 Aachen

Germany

***Information department:** *sds@reagecon.ie*

***Emergency telephone number:**

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(s) identification

***Classification of the substance or mixture**



Eye Irrit. 2A H319 Causes serious eye irritation.

***Label elements**

***GHS label elements** *The product is classified and labeled according to the Globally Harmonized System (GHS).*

***Hazard pictograms**



***Signal word** *Warning*

***Hazard statements**

Causes serious eye irritation.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 1)

***Precautionary statements**

Wash thoroughly after handling.

Wear eye protection / face protection.

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.

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

Health = 2

Fire = 0

Reactivity = 0

Other hazards**Results of PBT and vPvB assessment*****PBT:** Not applicable.***vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Mixtures**Description:** Mixture of the substances listed below with nonhazardous additions.***Dangerous components:**

CAS: 5968-11-6	sodium carbonate monohydrate	50-100%
----------------	------------------------------	---------

***Non- Hazardous Components**

CAS: 144-55-8	sodium hydrogencarbonate	25-50%
---------------	--------------------------	--------

4 First-aid measures

Description of first aid measures**After inhalation:** Supply fresh air; consult doctor in case of complaints.***After skin contact:** Generally the product does not irritate the skin.***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.

US

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 2)

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.

*Protective Action Criteria for Chemicals

*PAC-1:

CAS: 5968-11-6	sodium carbonate monohydrate	14 mg/m ³
CAS: 144-55-8	sodium hydrogencarbonate	13 mg/m ³

*PAC-2:

CAS: 5968-11-6	sodium carbonate monohydrate	150 mg/m ³
CAS: 144-55-8	sodium hydrogencarbonate	140 mg/m ³

*PAC-3:

CAS: 5968-11-6	sodium carbonate monohydrate	910 mg/m ³
CAS: 144-55-8	sodium hydrogencarbonate	840 mg/m ³

7 Handling and storage

*Handling:

***Precautions for safe handling** Prevent formation of dust.

***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 item 7.

*Control parameters

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

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

***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.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 3)

Avoid contact with the eyes and skin.

***Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Suitable respiratory protective device recommended.

***Protection of hands:**

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. As the product is a preparation of several substances, the 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:	Solid material
Color:	According to product specification
*Odor:	Characteristic
*Odor threshold:	Not determined.

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

***Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	>100 °C (>212 °F)

*Flash point:	Not applicable.
----------------------	-----------------

*Flammability (solid, gaseous):	Not determined.
--	-----------------

*Decomposition temperature:	Not determined.
------------------------------------	-----------------

*Auto igniting:	Product is not selfigniting.
------------------------	------------------------------

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

***Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

*Vapor pressure:	Not applicable.
-------------------------	-----------------

*Density:	Not determined.
------------------	-----------------

*Relative density	Not determined.
--------------------------	-----------------

*Vapor density	Not applicable.
-----------------------	-----------------

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 4)

*Evaporation rate	Not applicable.
*Solubility in / Miscibility with Water:	Insoluble.
*Partition coefficient (n-octanol/water):	Not determined.
*Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
*Solvent content:	
Solids content:	100.0 %
*Other information	No further relevant information available.

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:
- *Primary irritant effect:
- *on the skin: No irritant effect.
- *on the eye: Irritating effect.
- *Sensitization: No sensitizing effects known.
- *Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

*Carcinogenic categories

*IARC (International Agency for Research on Cancer)
None of the ingredients is listed.
*NTP (National Toxicology Program)
None of the ingredients is listed.
*OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

12 Ecological information

- *Toxicity
- *Aquatic toxicity: No further relevant information available.
- *Persistence and degradability No further relevant information available.

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 5)

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 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

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

14 Transport information

UN-Number**DOT, ADR, IMDG, IATA** Void***UN proper shipping name*****DOT, IMDG, IATA** Void***ADR** Void

Void

Transport hazard class(es)**DOT, ADR, IMDG, IATA*****Class** Void***Packing group*****DOT, ADR, IMDG, IATA** Void***Environmental hazards:** Not applicable.***Special precautions for user** Not applicable.***Transport in bulk according to Annex II of MARPOL73/78 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)**

None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 6)

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

None of the ingredients is listed.

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

CAS: 144-55-8 sodium hydrogencarbonate

ACTIVE

***Hazardous Air Pollutants**

None of the ingredients is listed.

***Prop 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

***Carcinogenicity categories**
***EPA (Environmental Protection Agency)**

None of the ingredients is listed.

***TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

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

None of the ingredients is listed.

***NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

***GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

***Hazard pictograms**


GHS07

***Signal word** Warning

***Hazard statements**

Causes serious eye irritation.

***Precautionary statements**

Wash thoroughly after handling.

Wear eye protection / face protection.

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.

***National regulations:**
***Water hazard class:** Water hazard class 1 (Self-assessment): slightly 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 preparation / last revision** 09/26/2019 / 2

***Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 09/26/2019

Reviewed on 09/26/2019

Trade name: pH Buffer Capsules pH 10.00 ± 0.02 @25°C (Blue)

(Contd. of page 7)

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
**** Data compared to the previous version altered.**

US