Revision: August 22, 2020

· Product identifie	
	r
 Trade name: <u>Hardr</u> Product code: HA7 	ness Buffer Powder 7215SS
· Recommended use	e and restriction on use e: Laboratory chemicals e: No relevant information available.
 Details of the sup Manufacturer/Supp AquaPhoenix Scient 860 Gitts Run Road Hanover, PA 17331 Tel +1 (717)632-129 Toll-Free: (866)632- info@aquaphoenixs Distributor: AquaPhoenix Scient 860 Gitts Run Road Hanover, PA 1733 (717) 632-1291 	tific, Inc. USA 91 -1291 sci.com tific d,
 Emergency telepho ChemTel Inc. (800)255-3924 (No +1 (813)248-0585 (rth America)
2 Hazard(s) ident	ification
[.] Classification of	the substance or mixture
•	Causes serious eye irritation.
Repr. 1B H360	Causes serious eye irritation. May damage fertility or the unborn child. Route of exposure: Oral.
Repr. 1B H360 Label elements GHS label element	May damage fertility or the unborn child. Route of exposure: Oral. sise sified and labeled according to the Globally Harmonized System (GHS).
Repr. 1B H360 • Label elements • GHS label element The product is class	May damage fertility or the unborn child. Route of exposure: Oral. sise sified and labeled according to the Globally Harmonized System (GHS).
Repr. 1B H360 Label elements GHS label element The product is class Hazard pictograms	May damage fertility or the unborn child. Route of exposure: Oral. sise sified and labeled according to the Globally Harmonized System (GHS).
Repr. 1B H360 Label elements GHS label element The product is class Hazard pictograms GHS07 GHS08 Signal word: Dange Hazard statements H319 Causes seriou H360 May damage Precautionary state P201	May damage fertility or the unborn child. Route of exposure: Oral. sified and labeled according to the Globally Harmonized System (GHS). s: er er s: us eye irritation. fertility or the unborn child. Route of exposure: Oral.

Revision: August 22, 2020

Trade name: Hardness Buffer Powder

(Cont'd. of page 1)

P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if	
	present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P337+P313	P337+P313 If eye irritation persists: Get medical advice/attention.	
P405	Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.		

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

00.050/
63.35%
30.95%
5.7%
3

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[·] Description of first aid measures
· After inhalation: Supply fresh air; consult doctor in case of complaints.
· After skin contact:
Brush off loose particles from skin.
Wash with soap and water.
If skin irritation continues, consult a doctor.
After eye contact:
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
Most important symptoms and effects, both acute and delayed:
Causes eye irritation.
Gastric or intestinal disorders when ingested.
Nausea in case of ingestion.
· Danger:
May damage fertility or the unborn child. Route of exposure: Oral.
May be harmful if swallowed.
(Cont'd. on page

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Hardness Buffer Powder

(Cont'd. of page 2)

• Indication of any immediate medical attention and special treatment needed: No relevant information available.

5 Fire-fighting measures

• Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

• Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

[•] Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

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

Methods and material for containment and cleaning up

Pick up mechanically.

Sweep up and place into an appropriate container.

Send for recovery or disposal in suitable receptacles.

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:

Prevent formation of dust.

Any deposit of dust which cannot be avoided must be regularly removed.

Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.

Use only in well ventilated areas.

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

[•] Conditions for safe storage, including any incompatibilities

• Requirements to be met by storerooms and receptacles:

Storage area should be dry and well-ventilated.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizers, strong acids, strong bases.

(Cont'd. on page 4)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: I	Hardness	Buffer	Powder
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(Cont'd. of page 3)

• Further information about storage conditions:

Keep containers tightly sealed.

This product is hygroscopic.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

[·] Control parameters

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

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

1303-96-4 Disodium tetraborate, decahydrate

1909-90-4 Disodium tetraborate, decanyurate	
REL (USA)	Long-term value: 5 mg/m³
TLV (USA)	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction
EL (Canada)	Short-term value: 6 mg/m³ Long-term value: 2 mg/m³
EV (Canada)	Short-term value: 6 mg/m³ Long-term value: 2 mg/m³ inorganic, inhalable
LMPE (Mexico)	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ A4, *fracción inhalable

• Exposure controls

· General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Engineering controls: Provide adequate ventilation.

· Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when high concentrations are present.

Protection of hands:



Protective gloves

Material of gloves

Nitrile rubber, NBR Neoprene gloves Butyl rubber, BR Natural rubber, NR Sensibilization by the components in the glove materials is possible. **Eye protection:**

(Cont'd. on page 5)

Revision: August 22, 2020

Trade name: Hardness Buffer Powder

(Cont'd. of page 4)

Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear. · Body protection: Light weight protective clothing

Limitation and supervision of exposure into the environment

No relevant information available.

9 Physical and chemical properties		
Information on basic physical and chemical properties		
· Appearance:		
Form:	Powder	
Color:	White	
· Odor:	Characteristic	
· Odor threshold:	Not determined.	
· pH-value:	Not applicable.	
 Melting point/Melting range: 	Not determined.	
 Boiling point/Boiling range: 	Not determined.	
· Flash point:	The product is not flammable.	
· Flammability (solid, gaseous):	Not determined.	
· Auto-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
 Oxidizing properties: 	Non-oxidizing.	
· Vapor pressure:	Not determined.	
[.] Density:		
Relative density:	Not determined.	
Vapor density:	Not applicable.	
Evaporation rate:	Not applicable.	
 Solubility in / Miscibility with 		
Water:	Soluble.	
· Partition coefficient (n-octanol/water): Not determined.		
· Viscosity		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
[•] Other information	No relevant information available.	

(Cont'd. on page 6)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Hardness Buffer Powder

(Cont'd. of page 5)

10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

· Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Reacts with strong acids and alkali.

Reacts with strong oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

• Conditions to avoid No relevant information available.

· **Incompatible materials** Oxidizers, strong bases, strong acids

[•] Hazardous decomposition products

Under fire conditions only:

Toxic metal oxide smoke

Carbon dioxide

11 Toxicological information

[·] Information on toxicological effects

• Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 3687 mg/kg (rat)

497-19-8 Sodium carbonate

Oral LD50 4090 mg/kg (rat)

1303-96-4 Disodium tetraborate, decahydrate

Oral LD50 2660 mg/kg (rat)

Primary irritant effect:

• On the skin: Based on available data, the classification criteria are not met.

· On the eye: Causes eye irritation.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

• NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity):

(Cont'd. on page 7)

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 22, 2020

Trade name: Hardness Buffer Powder

(Cont'd. of page 6)

May be harmful if swallowed.

Irritating to eyes.

· Repeated dose toxicity: Danger of very serious irreversible effects.

• 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: May damage fertility or the unborn child. Route of exposure: Oral.

• **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.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

Persistence and degradability No relevant information available.

· **Bioaccumulative potential:** No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

· Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

[·] Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

• Recommended cleansing agent: Water, if necessary with cleansing agents.

[·] UN-Number		
· DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
· UN proper shipping name · DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
· DOT, ADR/RID/ADN, IMDG, IATA		
· Class	Not regulated.	
· Packing group		

Revision: August 22, 2020

	: Hardness Buffer Powder	
		(Cont'd. of page
· DOT, AD	R/RID/ADN, IMDG, IATA	Not regulated.
· Environ	mental hazards	Not applicable.
[.] Special	precautions for user	Not applicable.
	rt in bulk according to Annex L73/78 and the IBC Code	k II of Not applicable.
5 Regulat	ory information	
mixture United St SARA	ates (USA)	egulations/legislation specific for the substance
	802 (extremely hazardous substa	ances):
	ne ingredients are listed.	
	13 (Specific toxic chemical listi	ngs):
	ne ingredients are listed.	
•	oxic Substances Control Act)	
	-8 Sodium carbonate	
	-4 Disodium tetraborate, decahyd	
14402-88	-1 Disodium [[N,N'-ethylenebi magnesate(2-)	s[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON
· Propositi	on 65 (California)	
· Chemica	Is known to cause cancer:	
None of the	ne ingredients are listed.	
Chemica	Is known to cause development	al toxicity for females:
None of the	ne ingredients are listed.	
Chemica	Is known to cause development	al toxicity for males:
None of the	ne ingredients are listed.	
· Chemica	Is known to cause development	al toxicity:
None of the	ne ingredients are listed.	
· EPA (Env	vironmental Protection Agency):	
•	Disodium tetraborate, decahydra	
· IARC (Int	ernational Agency for Research	on Cancer):
	ne ingredients are listed.	
•		
None of the	Domestic Substances List (DS	L):

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any (Cont'd. on page 9)

Revision: August 22, 2020

Trade name: Hardness Buffer Powder	
specific product features and shall not es	(Cont'd. of page 8) tablish a legally valid contractual relationship.
overview/home.do)	Goods American Chemical Society) on Category 2A Category 2B echa.europa.eu) Services (ofmpub.epa.gov/sor internet/registry/substreg/home/
Patty's Industrial Hygiene, 6th ed., Rose,	asic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN:
SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Website: www.chemtel.com	Intl. +01 813-248-0573