



Release Date: 5/25/18

REF	Product Name
GTIN	

08P7840	<i>Alinity c-series Alkaline Wash</i>
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Components:

08P78	Alinity c Alkaline Wash
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Abbott Customers:

For additional information, please contact your Abbott Customer Support Center Representative by calling 1-800-527-1869, 1-800-323-9100, or 1-800-235-5396.

Abbott employees:

For additional information relative to the content of the SDSs, please contact your local Safety Representative.



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Last alteration on 05/02/2018

1 Identification

· **Product name:** Alinity c Alkaline Wash

· **ADD List number:** 08P78

· **Application of the substance / mixture:** For In Vitro Diagnostic Use

· **Manufacturer / Supplier:**

Abbott Diagnostics
100 Abbott Park Road
Abbott Park, IL 60064-3500

Phone: 1-877-4 ABBOTT

· **Department issuing SDS:** Abbott Diagnostics Environmental Health and Safety

· **Emergency telephone number**

Contact the CHEMTREC® Emergency Call Center for assistance with transportation or hazardous materials emergencies (24 hours/day, 7 days/week). Refer to Abbott customer number 675805.

- Telephone (800) 424-9300 (toll-free) if you are calling from within the United States, Canada, Puerto Rico and the Virgin Islands.

- Telephone +1 (703) 527-3887, the international and maritime number (collect calls accepted), if you are calling from outside the United States or from a ship at sea.

2 Hazard(s) identification

· **Classification of the substance or mixture**

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Aquatic Acute 2 H401 Toxic to aquatic life.

· **Additional information:** Testing has been done on a similar material to determine the hazards.

· **Label elements**

· **GHS label elements:** The product is labelled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:**



· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Sodium hydroxide

· **Hazard statements:**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H401 Toxic to aquatic life.

· **Precautionary statements:**

P234 Keep only in original container.

P260 Do not breathe mist / vapors / spray.



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- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310 Immediately call a poison center/doctor.
- P390 Absorb spillage to prevent material damage.
- P501 Dispose of contents / container in accordance with local regulations.

· **Routes of Exposure:**

- Skin
- Eye

· **Hazard Overview**

- **Health:** Corrosive
- **Fire:** Noncombustible
- **Reactivity:** Minimal hazard - Stable, even in a fire. Not reactive with water. Not an oxidizer.

3 Composition/information on ingredients

- **Chemical characterization:** Mixture of chemical and/or biological substances for in vitro diagnostic use.

· **Hazardous chemical ingredients per U.S. OSHA criteria (29 CFR 1910.1200 Hazard Communication):**

CAS: 1310-73-2	Sodium hydroxide	4.12%
CAS: 139-33-3	EDTA, Disodium Salt	2.42%
CAS: 7681-52-9	Sodium hypochlorite	0.37%

4 First-aid measures

- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**
Supply fresh air or oxygen; seek immediate medical attention.
Symptoms (such as breathing difficulty) may be delayed and lead to underestimating the possible damage. Provide medical observation for at least 48 hours after exposure.
- **After skin contact:**
Take off any clothing that the product touched. Rinse skin with running water for 15 to 20 minutes. Seek medical attention.
Symptoms (such as pain) may be delayed and lead to underestimating the possible damage. Provide medical observation for at least 24 hours after exposure.
- **After eye contact:**
Rinse open eye(s) cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention and appropriate follow-up. Wash hands after handling.



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Symptoms (such as pain) may be delayed and lead to underestimating the possible damage. Provide medical observation for at least 48 hours after exposure.

· After swallowing:

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

· Information for Medical Personnel

· Most important symptoms and effects, both acute and delayed:

- Cramps
- Gastric or intestinal disorders
- Nausea
- Kidney effects
- Possible chemical burns to the skin and to the eyes
- Respiratory irritation

· Medical conditions aggravated by exposure:

- Pre-existing eye ailments
- Pre-existing respiratory ailments
- Pre-existing kidney ailments
- Pre-existing gastrointestinal tract ailments
- Pre-existing cardiovascular ailments

5 Fire-fighting measures

· Suitable extinguishing agents

Dry chemical, carbon dioxide (CO₂), water spray or regular foam.

- Caution: CO₂ will displace air in confined spaces and may cause an oxygen-deficient atmosphere.
- For larger fires: There are no unique chemical or reactivity hazards that would impact firefighting decisions related to this product. Use firefighting measures that suit the environment.

· Special hazards arising from the substance or mixture

There are no unique chemical or reactivity hazards that would impact firefighting decisions due to the chemicals in this product.

· Protective equipment

For large fires, wear appropriate heat- and flame-resistant personal protective equipment and a NFPA/NIOSH approved positive-pressure, self-contained breathing apparatus.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Minimize exposure by using appropriate personal protective equipment as listed in Section 8. Stop leak if possible. Keep unprotected persons away.

· Environmental precautions

Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.



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Methods and material for containment and cleaning up

Blot up small volumes of spilled or spattered product with paper towels or similar materials.

- Contain larger spills by placing absorbents around the outside edges of the spill. Absorb with any material suitable for water-based liquids - e.g. paper towels, universal sorbents, sand, diatomite, sawdust, etc.

Clean the affected area. Suitable cleaners are:

- warm water and detergent or similar cleansing agent

Dispose of spilled and contaminated material in accordance with Federal, State, and Local regulations. See Section 13 for information that may impact disposal of materials contaminated with this product.

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

· **Precautions for safe handling:** Avoid contact with eyes.

· **Information about protection against explosions and fires:** The product is not flammable.

· **Requirements to be met by storerooms and receptacles:**

Store only in the original container.

Refer to the package insert or product label for additional information on storage conditions for product quality.

· **Information about storage in one common storage facility:** Store in original packaging.

· **Further information about storage conditions:** Protect from heat and direct sunlight.

8 Exposure controls/personal protection

Components with Occupational Exposure Limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

CAS: 25322-68-3 Polyethylene glycol (3.74 %)

WEEL	TWA: 10 mg/m ³ (H); MW>200
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CAS: 7681-52-9 Sodium hypochlorite (0.37 %)

WEEL	STEL/C: 2 mg/m ³
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CAS: 1310-58-3 potassium hydroxide (0.19 %)

ACGIH TLV	STEL/C: C 2 mg/m ³
NIOSH REL	TWA: 2 mg/m ³
REL	Ceiling limit value: 2 mg/m ³
TLV	Ceiling limit value: 2 mg/m ³



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· **General protective and hygienic measures:**

Always maintain good housekeeping and follow general precautionary measures. Do not eat, drink or store food and beverages in areas where chemicals or specimens are used. Wash hands before breaks, after handling reagents and specimens, and at the end of the workshift.

Avoid contact with the skin.

Avoid contact with the eyes.

Immediately remove all soiled and contaminated clothing.

· **Breathing equipment:**

Normal use and storage of product - respiratory protection is not necessary if room is well ventilated.

Small-volume spills (e.g. small enough to clean up with a paper towel or small sorbent pad) - respiratory protection should not be necessary if room is well ventilated.

Other unusual conditions (e.g. volume spilled too big to clean up with materials in arm's reach) - Use appropriate NIOSH-approved air-purifying respirator if airborne chemical concentrations may exceed the exposure limit (if any) listed above.

Hazardous Materials Emergencies or Firefighting - use NIOSH/NFPA-approved respiratory protection.

· **Hand protection:**

Wear impervious gloves if hand contact with the material is anticipated. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

· **Material of gloves and breakthrough time of the glove material:**

The glove material must be suitable for use in a microbiological laboratory and have a measured breakthrough time of at least 30 minutes, such as those with a Class 2 protection index per EN374 (or equivalent standard applicable in your region). NOTE: This recommendation applies only to the product stated in this Safety Data Sheet. When dissolving in or mixing with other substances, contact the supplier of approved gloves.

· **Eye protection:**

Wear safety glasses or other protective eyewear. If splash potential exists, wear full face shield or goggles.

· **Body protection:**

Normal use: protect personal clothing from splatters and small spills. Wear a laboratory coat (or other protective clothing required by your institution).

Larger spills (e.g. that can saturate cloth): wear appropriate water-repellant covering over clothing.

9 Physical and chemical properties

· **General Information**

· **Form:** Solution
· **Color:** Colorless

· **Odor:** Odorless

· **pH-value at 20 °C (68 °F)** 13.8

· **Melting point/Melting range:** Not determined

· **Boiling point/Boiling range:** Not determined



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· Flash point	Not applicable
· Flammability (solid, gaseous)	Not applicable
· Auto igniting	Product is not self-igniting.
· Danger of explosion	Product does not present an explosion hazard.
· Explosion limits	
· Lower:	Not determined
· Upper:	Not determined
· Density at 20 °C (68 °F)	1.07 g/cm ³ (8.9292 lbs/gal)
· Evaporation rate:	Not determined
· Solubility in / Miscibility with	
· Water:	Fully miscible
· Dynamic:	Not determined
· Water:	86.7 %
· Solids content:	0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:** Strong exothermic reaction with acids
- **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

- **Acute toxicity**
- **LD50/LC50 values for hazardous ingredients per OSHA criteria:**

· Ingredients (100% pure substance/s):		
CAS: 1310-73-2 Sodium hydroxide		
Oral	LD50	2,000 mg/kg (rat)
	LDLo	500 mg/kg (rabbit)
Dermal	LD50	1,350 mg/kg (rabbit)
CAS: 139-33-3 EDTA, Disodium Salt		
Oral	LD50	2,000-2,300 mg/kg (mouse)
		2,000-2,300 mg/kg (rabbit)
		2,000-2,300 mg/kg (rat)



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Mutagenicity	(Ames Assay)
Target Organ Effects	(human) Possible adverse effects from pharmacological use include fever and effects on the: kidneys, gastro intestinal system, CNS, cardiovascular system, skin, blood, metabolism.

- **Primary toxicological effects of the final product:**
 - **Skin irritation:** Causes severe burns on skin and mucous membranes.
 - **Eye irritation:** Causes severe burns. Effects may be delayed.
- **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:** None

· **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.

· **Target organs/systems:**

- Eye
- Respiratory tract
- Kidneys
- Gastrointestinal tract
- Cardiovascular system
- Reproductive system
- Skin
- Bone marrow

12 Ecological information

- **Aquatic toxicity:** No further relevant information available.

· **Additional ecological information**

· **General notes:**

Rinse off of large volumes into drains or the aquatic environment may lead to increased pH values. A high pH value harms aquatic organisms.
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



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13 Disposal considerations

- **Recommendation for disposal of unused product:**
Dispose in accordance with federal, state and local regulations.
- **Recommendation for disposal of packaging:**
Non-contaminated packaging may be used for recycling. Refer to applicable local regulations and institutional policies.
For disposal of contaminated packaging, refer to applicable local regulations and institutional policies.
- **Recommended cleansing agent:** Water with cleansing agents, if necessary.

14 Transport information

· DOT, IMDG, IATA UN3266

· UN proper shipping name

· DOT, ADR Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)
 · IMDG, IATA CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

· Transport hazard class(es)

· DOT



· Class 8 Corrosive substances
 · Class 8 Corrosive substances
 · Label 8

· IMDG, IATA



· Class 8 Corrosive substances
 · Label 8

· DOT, IMDG, IATA II

· Environmental hazards

· Marine pollutant: No
 · EMS Number: F-A,S-B
 · Segregation groups Alkalis
 · Stowage Category B
 · Stowage Code SW2 Clear of living quarters.
 · Segregation Code SG35 Stow "separated from" acids.

· **Additional information** The information in this section reflects the actual chemical name and transport information for the material. Due to legal exceptions that are permitted by transport regulations, the proper shipping name and transport information included on the actual



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shipping document may differ. When this product is shipped as a component of an in vitro diagnostic medical device, exceptions that may be used include, but are not limited to, the following:

- Chemical Kit
- Excepted Quantity
- Consumer Commodity

· **ADR**

- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **IMDG**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

15 Regulatory information

· **SARA (Superfund Amendments and Reauthorization Act of 1986 - USA):**

- **Section 302/304 (40CFR355.30 / 40CFR355.40):**

The product does not contain listed substances.

- **Section 313 (40CFR372.65):**

The product does not contain listed substances.

- **TSCA new (21st Century Act) (Substances not listed)**

· **California Proposition 65 (USA):**

- **Chemicals known to cause cancer:**

The product does not contain listed substances.

- **Chemicals known to cause female reproductive toxicity:**

None of the ingredients is listed.

- **Chemicals known to cause male reproductive toxicity:**

None of the ingredients is listed.

- **Chemicals known to cause developmental reproductive toxicity:**

None of the ingredients is listed.

16 Other information

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and package inserts) provided with respect to the medical use of the product. Abbott Laboratories assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.

· Department issuing SDS

- Abbott Diagnostics Safety, Health and Environmental Assurance
Department 0571

· Contact

- General information about this product:
Abbott Diagnostics
Technical Support
100 Abbott Park Road
Abbott Park, IL 60064-3500

Phone: 1-877-4 ABBOTT

· **Date of preparation / last revision** 05/25/2018 / 7

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
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
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (Division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: persistent, bioaccumulative and toxic
vPvB: very persistent and very bioaccumulative
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Met. Corr.1: Corrosive to metals – Category 1
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

· * **Sections marked with an asterisk (*) have been altered since the previous version.**