



Release Date: 5/25/18

REF	
GTIN	Product Name

08P7740	<i>Alinity c-series Acid Wash</i>
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Components:

08P77	Alinity c Acid 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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Safety Data Sheet

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1 Identification

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

· **ADD List number:** 08P77

· **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.

Acute Tox. 4 H332 Harmful if inhaled.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 2 H371 May cause damage to organs.

Aquatic Acute 3 H402 Harmful 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:**

Methanol
Citric Acid Monohydrate
Chloroacetic acid

· **Hazard statements:**

H290 May be corrosive to metals.

H332 Harmful if inhaled.



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H318 Causes serious eye damage.
H371 May cause damage to organs.
H402 Harmful to aquatic life.

· **Precautionary statements:**

- P234 Keep only in original container.
- P260 Do not breathe mist / vapors / spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P311 IF exposed or concerned: Call a poison center/doctor.
- P310 Immediately call a poison center/doctor.
- P390 Absorb spillage to prevent material damage.
- P501 Dispose of contents / container in accordance with local regulations.

· **Additional information:** May cause blindness.

· **Routes of Exposure:**

- Eye
- Inhalation

· **Hazard Overview**

· **Health:**

- May cause irreversible eye damage.
- May cause blindness.

· **Fire:** Noncombustible

· **Reactivity:** Minimal hazard - Stable, even in a fire. Not reactive with water. Not an oxidizer.

· **Special Hazards:** See section 11 for details.

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: 67-56-1	Methanol	3.54%
CAS: 5949-29-1	Citric Acid Monohydrate	3.43%
CAS: 144-62-7	Oxalic acid	2.72%
CAS: 79-11-8	Chloroacetic acid	1.09%

4 First-aid measures

· **After inhalation:** Remove from source of exposure. If irritation or signs of toxicity occur, seek medical attention.

· **After skin contact:**

Take off any clothing that the product touched.

Rinse skin with running water for 15 to 20 minutes. Seek medical attention if irritation or signs of toxicity occur.



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· After eye contact:

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 with water. If irritation or signs of toxicity occur, seek medical attention.

· Information for Medical Personnel

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

- Cramps
- Gastric or intestinal disorders
- Nausea
- Headache
- Disorientation
- Liver effects
- Kidney effects
- Irreversible eye damage
- Respiratory irritation
- Dizziness

· Medical conditions aggravated by exposure:

- Pre-existing eye ailments
- Pre-existing respiratory ailments
- Pre-existing liver condition
- Pre-existing kidney ailments
- Pre-existing gastrointestinal tract ailments
- Pre-existing cardiovascular ailments
- Pre-existing pancreas ailments
- Pre-existing nervous system 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.



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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.

· 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.

Avoid inhalation.

· **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.



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Product name: Alinity c Acid Wash

CAS: 67-56-1 Methanol (3.54 %)

PEL	TWA: 260 mg/m ³ , 200 ppm
REL	STEL/C: 325 mg/m ³ , 250 ppm TWA: 260 mg/m ³ , 200 ppm Skin
TLV	STEL/C: 328 mg/m ³ , 250 ppm TWA: 262 mg/m ³ , 200 ppm Skin; BEI

CAS: 25322-68-3 Polyethylene glycol (3.26 %)

WEEL	TWA: 10 mg/m ³ (H); MW>200
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CAS: 79-11-8 Chloroacetic acid (1.09 %)

TLV	TWA: 2* mg/m ³ , 0.5* ppm Skin; *as inhalable fraction and vapor
WEEL	TWA: 0.5 ppm Skin

· Ingredients with biological limit values:

CAS: 67-56-1 Methanol (3.54 %)

BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
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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 eyes.

· 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:



Product name: Alinity c Acid Wash

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)** 1
- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** Not determined

- **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)** 1.02 g/cm³ (8.5119 lbs/gal)
- **Evaporation rate:** Not determined

- **Solubility in / Miscibility with**
- **Water:** Fully miscible
- **Dynamic:** Not determined

- **Water:** 86.0 %
- **Solids content:** 0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided**
No decomposition if used and stored according to specifications.



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Product name: Alinity c Acid Wash

- **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

Acute toxicity

LD50/LC50 values for hazardous ingredients per OSHA criteria:

Ingredients (100% pure substance/s):

CAS: 67-56-1 Methanol

Oral	LD50	5,000-7,300 mg/kg (mammal) 5,628 mg/kg (rat)
	LDLo	143 mg/kg (human)
Dermal	LD50	15,800 mg/kg (rabbit)
Inhalation	LC50 4 h	64,000 ppm (rat)

CAS: 5949-29-1 Citric Acid Monohydrate

Oral	LD50	>3,000 mg/kg (mammal) 6,730 mg/kg (rat)
	Target Organ Effects	(mammal) In animals, tremors and convulsions were noted when administered high doses (7gm/kg). Ingestion of large quantities of citric acid has been reported to cause gastrointestinal disturbance.

CAS: 144-62-7 Oxalic acid

Oral	LD50	7,500 mg/kg (rat) Oral lethal dose in humans reported to be 10 - 30 grams (200-400 mg/kg).
	Target Organ Effects	(human) Dust reported to be severely irritating to the respiratory tract. Reported to be severely irritaitng to the eyes in humans and rabbits. Reported to cause burns to the eyes, skin and mucous membranes. Solutions containing 5-10% oxalic acid reported to be irritaing to workers. In humans and animals, oxalic acid immobilizes body calcium and produces hypocalcemia and hypertension. In animals, dosages of 30-75 mg/kg produced focal renal necrosis and resulted in the formation of calcium oxalate crystals in the kidneys, heart, lungs and liver.

CAS: 79-11-8 Chloroacetic acid

Oral	LD50	165 mg/kg (rat)
Inhalation	LC50 4 h	0.18 mg/l (rat)

Primary toxicological effects of the final product:

- **Skin irritation:** No irritant effect.
- **Eye irritation:** Causes severe burns. Effects may be delayed.



Product name: Alinity c Acid Wash

· **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
- Liver
- Kidneys
- Gastrointestinal tract
- Nervous system
- Cardiovascular system
- Pancreas

12 Ecological information

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

· **Additional ecological information**

· **General notes:**

Do not allow product to reach ground water, water course, or sewage system. Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable
- **vPvB:** Not applicable

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.



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· **Recommended cleansing agent:** Water with cleansing agents, if necessary.

14 Transport information

· **DOT, IMDG, IATA** UN3265

· UN proper shipping name

· **DOT, ADR** Corrosive liquid, acidic, organic, n.o.s. (Chloroacetic acid)
· **IMDG, IATA** CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (CHLOROACETIC ACID)

· Transport hazard class(es)

· **DOT**



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

· **IMDG, IATA**



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

· **DOT, IMDG, IATA** III

· Environmental hazards

· **Marine pollutant:** No
· **Poison inhalation hazard:** No
· **EMS Number:** F-A,S-B
· **Segregation groups** Acids
· **Stowage Category** A
· **Stowage Code** SW2 Clear of living quarters.

· **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 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



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· **ADR**

· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

15 Regulatory information

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

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

CAS: 79-11-8 | Chloroacetic acid

· **Section 313 (40CFR372.65):**

CAS: 67-56-1 | Methanol

CAS: 79-11-8 | Chloroacetic acid

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

CAS: 5949-29-1 | Citric Acid Monohydrate

· **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:**

CAS: 67-56-1 | Methanol

16 Other information



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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 / 8

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
BEI: Biological Exposure Limit
Met. Corr. 1: Corrosive to metals – Category 1
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 2: Specific target organ toxicity (single exposure) – Category 2
Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

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