



Abbott

Release Date: 11/16/18

REF	
GTIN	Product Name

08P9670	<i>Alinity c-series Detergent A</i>
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Components:

08P96	Alinity c Detergent A
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Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

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

1.1 Product identifier

· Trade name: **Alinity c Detergent A**

· Article number: 08P96

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

No further relevant information available.

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

1.3 Details of the supplier of the safety data sheet

· Supplier:

Abbott GmbH & Co.KG
Max-Planck-Ring 2
65205 Wiesbaden
Tel.: (+49)-6122-58-0

MSDS-Support@Abbott.com

1.4 Emergency telephone number

(+49)-6122-58-0 (English only)

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.

- Telephone 09 8010034 if you are calling from New Zealand.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008:

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

· Additional information: Testing has been done to determine the hazards of this material.

2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008:

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

· Hazard pictograms:



· Signal word: Danger

· Hazard-determining components of labelling:

2-aminoethanol

(Continued on page 2)

ENG

Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 1)

· **Hazard statements:**

H315 Causes skin irritation.
H318 Causes serious eye damage.

· **Precautionary statements:**

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
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 or doctor/physician.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

· **Routes of Exposure:**

Skin
Eye

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment:**

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

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Dangerous components according to EC criteria:**

CAS: 141-43-5	2-aminoethanol	3.46%
EINECS: 205-483-3	Skin Corr. 1B, H314; Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	

· **Additional information:**

For the complete text of Hazard (H) codes displayed in this section, refer to Section 16.

SECTION 4: First aid measures

· **4.1 Description of 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.

· **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.

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

Skin irritation
Irreversible eye damage

(Continued on page 3)

Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 2)

- **4.3 Indication of any immediate medical attention and special treatment needed:**
No additional relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **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.
- **5.2 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.
- **5.3 Advice for firefighters**
 - **Protective equipment:**
For large fires, wear appropriate heat- and flame-resistant personal protective equipment and an approved positive-pressure, self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 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.
- **6.2 Environmental precautions**
Prevent liquid and vapor from entering sewage system, storm drains, surface waters, and soil.
- **6.3 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 absorbants 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.
- **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:**
Avoid contact with skin.
Avoid contact with eyes.

(Continued on page 4)

ENG

Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 3)

- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and containers:** Store only in the original container.
 - **Information about storage in one common storage facility:** Store in original packaging.
 - **Further information about storage conditions:**
Refer to the package insert or product label for additional information on storage conditions for product quality.
- **7.3 Specific end use(s):** No additional relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

CAS: 141-43-5 2-aminoethanol (3.46 %)

WEL (Great Britain)	Short-term value: 7.6 mg/m ³ , 3 ppm Long-term value: 2.5 mg/m ³ , 1 ppm Sk
IOELV (European Union)	Short-term value: 7.6 mg/m ³ , 3 ppm Long-term value: 2.5 mg/m ³ , 1 ppm Skin

8.2 Exposure controls

- **Personal protective equipment:**

- **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.

- **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 air-purifying respirator if airborne chemical concentrations may exceed the exposure limit (if any) listed above.

Hazardous Materials Emergencies or Firefighting - use approved respiratory protection.
Take precautions if chemical concentrations exceed the exposure limits (if any) listed above.

- **Protection of hands:**

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.

(Continued on page 5)

Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 4)

· **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.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· **General Information**

· **Appearance:**

· **Form:** Liquid
 · **Colour:** Colourless

· **Odour:** Odourless
 · **Odour threshold:** Not determined

· **pH-value at 20 °C:** 11.4

· **Change in condition:**

· **Melting point/freezing point:** Not determined
 · **Initial boiling point and boiling range:** Not determined

· **Flash point:** Not applicable
 · **Inflammability (solid, gaseous):** Not applicable
 · **Auto igniting** Product is not self-igniting.

· **Explosive properties:** Product does not present an explosion hazard.

· **Explosion limits**

· **Lower:** Not determined
 · **Upper:** Not determined

· **Density at 20 °C** 1.01 g/cm³
 · **Relative density:** Not determined
 · **Evaporation rate:** Not determined

· **Solubility in / Miscibility with**

· **Water:** Fully miscible

· **Viscosity:**

· **dynamic:** Not determined

· **Water:** 92.3 %
 · **Solids content:** 0.0 %

(Continued on page 6)

Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 5)

· **9.2 Other information** No further relevant information available.

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 and stored 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 toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.
 - **LD/LC50 values that are relevant for classification:**

· **Ingredients (100% pure substance/s):**

CAS: 141-43-5 2-aminoethanol

Oral	LD50	1,720 mg/kg (rat)
Dermal	LD50	1,000 mg/kg (rbt)
	Target Organ Effects	(rabbit) 505 mg moderate, 0.250 mg severe (per vendor specification).

- **Primary irritant effect:**
 - **Skin corrosion/irritation**
Irritating to skin and mucous membranes.
Causes skin irritation.
 - **Serious eye damage/irritation**
Causes severe burns. Effects may be delayed.
Causes serious eye damage.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Additional toxicological information:** None
- **Target organs/systems:**
Eye
Skin
 - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
 - **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.

(Continued on page 7)

**Trade name: Alinity c Detergent A**

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

(Continued from page 6)

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.

Additional ecological information**General notes:**

Rinse off of large volumes of product 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 bodies or sewage system.

Refer to applicable local regulations for limit values of discharge into sewage system.

12.5 Results of PBT and vPvB assessment

· **PBT:** Not applicable

· **vPvB:** Not applicable

· **12.6 Other adverse effects:** No further relevant information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

There are no uniform EU regulations for the disposal of laboratory waste. In general, laboratory waste is under special supervision of the authorities.

Recommendation for disposal of unused product:

Dispose in accordance with national, state and local regulations.

European waste catalogue:

Consult the responsible regulatory body for the assignment of disposal codes according to the European Waste Catalogue.

The following waste disposal key numbers are possible:

18 01 06: chemicals consisting of or containing dangerous substances

Uncleaned packagings

For disposal of contaminated packaging, refer to applicable local regulations and institutional policies.

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 cleaning agent:** Water with cleansing agents, if necessary.

ENG

(Continued on page 8)



Safety Data Sheet

according to 1907/2006/EC, Article 31

© Abbott Laboratories Release date 16.11.2018

Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 7)

SECTION 14: Transport information

· **14.1 UN-Number**

· ADR, IMDG, IATA UN2491

· **14.2 UN proper shipping name**

· ADR, IMDG, IATA ETHANOLAMINE SOLUTION

· **14.3 Transport hazard class(es)**

· ADR, IMDG, IATA



· Class 8 Corrosive substances.

· **14.4 Packing group**

· ADR, IMDG, IATA III

· **14.5 Environmental hazards**

· Marine pollutant: No

· **14.6 Special precautions for user** Warning: Corrosive substances.

- EMS Number: F-A,S-B
- Segregation groups: Alkalis
- Stowage Category: A
- Segregation Code: SG35 Stow "separated from" acids.

· **Transport/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

· **ADR**

- Excepted quantities (EQ): E1
- 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

· **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

Safety Data Sheet

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Version number 7

Last alteration on 16.11.2018

Trade name: Alinity c Detergent A

(Continued from page 8)

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** None of the ingredients is listed.
- **15.2 Chemical safety assessment** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information and recommendations contained herein are based upon information or tests believed to be reliable. Abbott Laboratories does not guarantee the accuracy or completeness of this information or recommendations contained herein, NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE.

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- **Complete text for H (Hazard) codes displayed in Section 3:**

Note: The respective H statements apply to the pure substances.

 - H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H332 Harmful if inhaled.
- **Contact supplier**

Environmental Affairs & Product Safety
Tel.: +49 (0) 6122 58 0
- **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
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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
Acute Tox. 4: Acute toxicity □ Category 4
Skin Corr. 1B: Skin corrosion/irritation □ Category 1B
Skin Irrit. 2: Skin corrosion/irritation □ Category 2
Eye Dam. 1: Serious eye damage/eye irritation □ Category 1
- *** Data compared to the previous version altered.**