

SAFETY DATA SHEET:

AP Staining Solution C: 10 mL – Naphthol AS-BI Alkaline Solution



1. IDENTIFICATION

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| 1.1. Product Name | AP Staining Solution C: 10 mL – Naphthol AS-BI Alkaline Solution |
| 1.2. Catalog Number | 09-0065 |
| 1.3. Uses and restrictions | For research use only. Not for use in diagnostic or therapeutic applications |
| 1.4. Manufacturer/Supplier | REPROCELL USA
9000 Virginia Manor Road
Beltsville, MD 20705
301-470-3362 |
| 1.5. In Case of Emergency | <ul style="list-style-type: none">• For medical emergencies, contact your local emergency center.• For transportation emergencies, contact your local transportation authorities.• For other non-medical or non-environmental emergencies please call (617) 245-0030, 8:00 am-4:00 pm EST, Monday – Friday. |

2. HAZARDS IDENTIFICATION

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| 2.1. GHS Classification according to Annex II and EC 1272/2008 | <ul style="list-style-type: none">• Corrosive to metals (Category 1), H290• Skin irritation (Category 1), H315• Serious eye damage (Category 1), H318• Specific target organ toxicity – single exposure (Category 3), Respiratory System, H335 |
| 2.2. Signal Word | Danger |
| 2.3. Symbol | |
| 2.4. Hazard Statement(s) | <ul style="list-style-type: none">• H290: May be corrosive to metals• H315: Causes skin irritation• H318: Causes serious eye damage• H335: May cause respiratory irritation |
| 2.5. Precautionary Statement(s) | <ul style="list-style-type: none">• P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.• P264: Wash skin thoroughly after handling.• P270: Use only outdoors or in a well-ventilated area.• P280: Wear protective gloves / protective clothing/eye and face protection.• P302+P352: IF ON SKIN: Wash with plenty of soap and water.• P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.• P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. |



Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

- P333+P313: If skin irritation or rash occurs, get medical advice or attention.
- P362: Remove contaminated clothing and wash before reuse.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents and container to an approved waste disposal plant.

2.6. Hazards not otherwise classified (HNOC) or not covered by GHS

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Name	3.2 Synonyms	3.3 Chemical Formula	3.4 Molecular Weight	3.5 CAS Number
2-Amino-2-methylpropane-1,3-diol	AMPD, Ammediol	C ₄ H ₁₁ NO ₂	105.14 g/mol	115-69-5
Hydrogen chloride	Hydrochloric acid	HCl	36.46 g/mol	7647-01-0

HAZARDOUS COMPONENTS WITHIN MIXTURES

Component	CAS-No./EC-No.	Classification	Concentration
2-Amino-2-methylpropane-1,3-diol	CAS: 111-69-5 EC: 204-100-7	Skin Irrit. 2: H315 Eye Irrit. 2A: H318	20-30%
Hydrochloric acid	CAS-No: 7467-01-0 EC-No: 231-595-7	Met. Corr. 1: H290 Skin Corr. 1B: H314 Eye Dam. 1: H314 STOT SE 3: H290, H314, H319, H335	3-5%

4. FIRST AID MEASURES

4.1 First Aid Instructions

- General Advice
Move out of exposure area. Consult a physician.
- Eyes
Check for and remove contact lenses immediately and flush thoroughly with water for at least 15 minutes. Call a physician.
- Skin
Immediately flush skin with copious amounts of water. Remove contaminated clothing and shoes and wash before use. Contact a physician.
- Ingestion
If swallowed, wash mouth out with water provided person is conscious. Do not induce vomiting. Loosen tight clothing. Contact a physician.
- Inhalation
If inhaled, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.
- Puncture Wounds
Wash thoroughly with soap and water. Allow wound to bleed freely. Contact a physician.



- 4.2 Most Important Symptoms/effects, acute and immediate Described in Section 2, 11.
- 4.3 Indications of immediate medical attention and special treatment needed No data available.

5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Specific hazards arising from the chemical Carbon oxides, Hydrogen chloride gas, nitrogen oxides (NO_x)
- 5.3 Special protective equipment and precautions for firefighters Wear self-contained breathing apparatus and full turnout gear for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment, and emergency procedures Use personal protective equipment (see section 8). Avoid inhalation of dust and vapors. Ensure adequate ventilation. Evacuate personnel to safe areas.
- 6.2 Environmental Precautions Do not let product enter drain.
- 6.3 Methods and materials for containment and clean up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling
- Avoid inhalation, contact with eyes, skin, and clothing.
 - Avoid inhalation of vapor or mist.
 - For other precautions see section 2.5.
- 7.2 Conditions for safe storage, including any incompatibilities Store at 4°C. Keep container tightly closed in a dry, well-ventilated place. Containers that are open must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Hydrochloric acid	7467-01-0	TWA Indicative	5 ppm 8 mg/m ³	EC Directive 2000/39/EC
		STEL Indicative	10 ppm 15 mg/m ³	EC Directive 2009/39/EC
		Ceiling limit	2 ppm	US ACGIH TLV
		Ceiling limit	5 ppm 7 mg/m ³	US NIOSH REL US OSHA Table Z-1
		TWA	1 ppm 2 mg/m ³	UK EH40 WEL



		STEL	5 ppm 8 mg/m ³	UK EH40 WEL
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- 8.2 Appropriate engineering controls Safety shower and eye bath. Mechanical exhaust required.
- 8.3 Protection measures and Personal Protective Equipment
- General:** Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling.
- Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied-air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Eye/Face Protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).
- Skin Protection:** Protective gloves and lab coat. Use nitrile rubber gloves with a minimum thickness of 0.11 mm. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it, if applicable.

9. PHYSICAL/CHEMICAL PROPERTIES

- 9.1 Appearance Liquid.
- 9.2 Odor No data available.
- 9.3 Odor Threshold No data available.
- 9.4 pH 9.5.
- 9.5 Melting point/freezing point No data available.
- 9.6 Initial boiling point and boiling range No data available.
- 9.7 Flashpoint No data available.
- 9.8 Evaporation rate No data available.
- 9.9 Flammability (solid, gas); No data available.
- 9.10 Upper/lower flammability or explosive limits No data available.
- 9.11 Vapor pressure No data available.
- 9.12 Vapor density No data available.
- 9.13 Relative density No data available.
- 9.14 Solubility(ies) No data available.
- 9.15 Partition coefficient: n-octanol/water No data available.
- 9.16 Auto-ignition temperature No data available.
- 9.17 Decomposition temperature No data available.



9.18	Viscosity	No data available.
9.19	Explosive properties	No data available.
9.20	Oxidizing properties	No data available.

10. REACTIVITY

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under recommended storage conditions.
13.3	Possibility of hazardous reactions	No data available.
10.4	Conditions to Avoid	No data available.
15.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	Fire: Carbon oxides, Nitrogen oxides, hydrogen chloride gas Other: No data available.

11. TOXICOLOGICAL INFORMATION

11.1	Toxicological effects	Acute toxicity: No data available. Skin corrosion/irritation: No data available. Serious eye damage/eye irritation: No data available. Respiratory or skin sensitization: No data available. Germ cell mutagenicity: No data available. Carcinogenicity: IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid). No other component of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen ACGIH: No components of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen NTP: No components of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen OSHA: No components of the product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen Reproductive toxicity: No data available. Specific target organ toxicity – single exposure: No data available. Specific target organ toxicity – repeated exposure: No data available. Aspiration hazard: No data available.
11.2	Symptoms related to the physical, chemical and toxicological characteristics	No data available.
11.3	Effects of Short-Term Exposure	No data available.
11.4	Effects of Long-Term Exposure	No data available.



- 11.5 Numerical measures of toxicity No data available.
11.6 Other Information No data available.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity No data available.
12.2 Persistence and degradability No data available.
12.3 Bioaccumulative potential No data available.
12.4 Mobility in soil No data available.
12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
12.6 Other adverse effects No data available.

13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal method Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Dispose of contaminated packaging as unused product.
13.2 Personal safety Refer to section 8.

14. TRANSPORT INFORMATION

US DOT: UN Number: 3265; Class: 8; Packing Group III; Proper Shipping Name: Corrosive liquid, acidic, organic, n.o.s. (Hydrochloric acid); Marine pollutant: No; Poison inhalation Hazard: No
IMDG: UN Number: 3265; Class 8; Packing Group III; EMS-No.: F-A, S-B; Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Hydrochloric acid); Marine pollutant: No;
IATA: UN Number: 3265; Class 8; Packing Group III; Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Hydrochloric acid)
ADR/RID: UN Number: 3265; Class 8; Packing Group: III; Proper shipping name: Corrosive liquid, acidic, organic, n.o.s. (Hydrochloric acid); Marine pollutant: No

15. REGULATORY INFORMATION

- 15.1 Safety, health, and environmental regulations specific to this product
SARA 313 components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels.
SARA 302 Components: Does not contain any components subject to reporting.
SARA 311/312 Hazards: Acute Health Hazard



Clean air act, Section 112 (CFR 61): Does not contain any components subject to reporting.

California Proposition 65: Does not contain any components subject to reporting.

Massachusetts Right To Know Components: Hydrochloric Acid, CAS-No. 7647-01-0

Pennsylvania Right To Know Components: Hydrochloric Acid, CAS-No. 7647-01-0; 2-Amino-2-methylpropane-1,3-diol, CAS-No. 115-69-5

New Jersey Right To Know Components: Hydrochloric Acid, CAS-No. 7647-01-0; 2-Amino-2-methylpropane-1,3-diol, CAS-No. 115-69-5

WHMIS Hazard Class: Not controlled under HSMIS (Canada)

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16. OTHER INFORMATION

Notice

The above information is believed to be correct but does not purport to be all-inclusive and should be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. REPROCELL, Inc. shall not be held liable for any damage resulting from handling or from contact with the product. See REPROCELL, Inc. website for terms and conditions of sale.

18 November 2019

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Quality Control

END OF SAFETY DATA SHEET

