



# SAFETY DATA SHEET

Doc. ID: PCRClean DX SDS Rev. 3.1  
Revised (year/month/day) 2019/2/22

## 1 Identification

### 1.1 Product Identifier

**Product Name** Aline PCRClean DX  
C-1003-5; C-1003-50; C-1003-  
**Product Part Number** 250; C-1003-450

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

**Product Use** For Research Use Only. See product literature for details.

### 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Aline Biosciences LLC.  
175-KK New Boston Street  
Woburn MA 01801, U.S.A.  
Tel: 1-888-987-3677

#### EC REP Address

Aline Biosciences LLC.  
175-KK New Boston Street  
Woburn MA 01801, U.S.A.  
Telephone 1-888-987-3677  
Monday through Friday, 9:00 am to  
7:00pm)

**e-mail address** info@alinebiosciences.com

### 1.4 Emergency telephone number

**Telephone number (24H)** USA 1-888-987-3677, International 1-888-987-3677  
703-527-3887

## 2 Hazards Identification

### 2.1 Classification of substance or mixture

**Product Description** Mixture  
Brown; Clear with brown precipitate; Liquid; Odorless

#### Classification according to EC 1272/2008 (CLP/GHS)

Not classified as hazardous per EC 1272/2008 (CLP/GHS)

#### Classification according to EC Directives 1999/45/EC and 67/548/EEC

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

#### Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Not classified as hazardous per US-OSHA HCS 2012 and UN GHS

### 2.2 Label Elements

#### According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Not classified as hazardous per EC 1272/2008 (CLP/GHS), US-OSHA and GHS

## 2 Hazards Identification (Continued)

### 2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.

See Section 11 Toxicological Information for more detailed health information.

## 3 Composition/Information on Ingredients

### 3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Sodium Azide CAS # 26628-22-8 EINECS # 247-852-1 Index # 011-004-00-7	<0.005	T+;R28-32 N;R50/53	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	Acute Tox. Oral 2 Aquatic Acute 1 Aquatic Longterm 1 H300; H400; H410	2, 8

2 - Substance with Community workplace exposure limits

8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

## 4 First Aid Measures

### 4.1 Description of first aid measures

#### After Inhalation

Consult a doctor for complaints.

#### After Eye Contact

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor. If easy to do so, remove contact lenses if worn.

#### After Skin Contact

Immediately wash with water and soap and rinse thoroughly

#### After Ingestion

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration by trained personnel and consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

No adverse symptoms or effects have been identified.

### 4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

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## 5 Fire-Fighting Measures

**Flammable Properties** Nonflammable aqueous solution.

**5.1 Extinguishing Media** For large fires use extinguishing media suitable for surrounding fire.  
In case of fire use carbon dioxide (CO<sub>2</sub>), dry chemical, sand, water spray or foam.

**5.2 Special hazards arising from the substance or mixture**

**Special Fire and Explosion Hazards**

No special hazards determined.

**Hazardous Combustion Products**

No combustion products posing significant hazards are expected from this product (an aqueous solution).

**5.3 Advice for fire fighters**

**Protective Equipment**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

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## 6 Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Use good laboratory procedures; avoid eye and skin contact.

**6.2 Environmental Precautions**

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

**6.3 Methods and material for containment and cleaning up**

**Spill and Leak Procedures**

Absorb spilled material with an appropriate inert, non-flammable absorbent and Dispose of the collected material according to regulations.

**6.4 Reference to other sections** Refer sections 8 and 13.

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## 7 Handling and Storage

**7.1 Precautions for safe handling** Use good laboratory procedures; avoid eye and skin contact.

**7.2 Conditions for safe storage, including any incompatibilities**

To maintain product quality, store according to the instructions in the product labeling.

Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

**7.3 Specific end uses**

No further relevant information available.

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## 8 Exposure Controls and Personal Protection

### 8.1 Control parameters

#### Exposure Limits

##### US OSHA

None established

##### ACGIH

Sodium Azide  
CAS # 26628-22-8

0.29 mg/m<sup>3</sup> Ceiling (as NaN<sub>3</sub>); 0.11 ppm Ceiling (as Hydrazoic acid) (vapor)

##### DFG MAK

Sodium Azide  
CAS # 26628-22-8

0.4 mg/m<sup>3</sup> Peak (inhalable fraction); 0.2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

##### Ireland

Sodium Azide  
CAS # 26628-22-8

0.1 mg/m<sup>3</sup> TWA (as NaN<sub>3</sub>); 0.3 mg/m<sup>3</sup> STEL; Potential for cutaneous absorption

##### IOELVs

Sodium Azide  
CAS # 26628-22-8

Possibility of significant uptake through the skin; 0.3 mg/m<sup>3</sup> STEL; 0.1 mg/m<sup>3</sup> TWA

##### NIOSH

None established

##### Japan

None established

### 8.2 Exposure controls

#### Engineering Controls

No special engineering controls are required. Use with good general ventilation.

#### Eye Protection

Tightly sealed goggles.  
Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

#### Skin Protection

Wear protective clothing and impervious gloves, as appropriate.

#### Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection.

## 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Specific Gravity (Water=1.0)</b>	≈ 1.13
<b>Color</b>	Brown	<b>Solubility</b>	
<b>Transparency</b>	Clear with brown precipitate	<b>Water</b>	Miscible
<b>Odor</b>	Odorless	<b>Organic</b>	Not determined
<b>pH</b>	6.0 - 8.5	<b>Partition coefficient: n-octanol/water</b>	Not determined
<b>Freezing Point</b>	Not determined	<b>Auto-ignition Temp.</b>	Not applicable

## 9 Physical and Chemical Properties (Continued)

<b>Boiling Point</b>	Not determined	<b>Decomposition Temperature</b>	Not determined
<b>Flash Point</b>	Not applicable	<b>Percent Volatiles</b>	Not applicable
<b>Evaporation Rate</b>	Not determined	<b>Vapor Pressure</b>	Not determined
<b>Flammability (Solid, Gas)</b>	Not applicable	<b>Viscosity</b>	Not determined
<b>Flammability Limits</b>	Not determined		
<b>Vapor Density</b>	Not determined	<b>Oxidizing Properties</b>	Not applicable
<b>Odor Threshold</b>	Not applicable		

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

## 10 Stability and Reactivity

<b>10.1 Reactivity</b>	No further relevant information available.
<b>10.2 Chemical Stability</b>	The product is stable in accordance with recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	This product contains concentrations of azide below the hazardous level which with repeated contact with lead and copper commonly found in plumbing drains may result in the build up of shock sensitive compounds. Sodium azide forms explosive compounds with heavy metals.
<b>10.4 Conditions to Avoid</b>	Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.
<b>10.5 Incompatible materials</b>	Metals and metallic compounds
<b>10.6 Hazardous Decomposition Products</b>	No decomposition products posing significant hazards would be expected from this product.

## 11 Toxicological Information

<b>11.1 Information on toxicological effects</b>	
<b>Toxicity Data for Hazardous Ingredients</b>	
Sodium Azide CAS # 26628-22-8	Oral LD50 Rat 27 mg/kg
<b>Primary Routes of Exposure</b>	Eye contact, ingestion, inhalation, and skin contact.
<b>Skin Corrosion/Irritation</b>	Not classified based on available data.
<b>Serious eye damage/eye irritation</b>	Not classified based on available data.
<b>Respiratory/skin sensitization</b>	Not classified based on available data.

## 11 Toxicological Information (Continued)

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<b>Carcinogenicity</b>	No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
<b>Germ cell mutagenicity</b>	Not classified based on available data.
<b>Reproductive Toxicity</b>	Not classified based on available data.
<b>Specific target organ toxicity – single exposure</b>	Not classified based on available data.
<b>Specific target organ toxicity – repeated exposure</b>	Not classified based on available data.
<b>Aspiration hazard</b>	Not classified based on available data.
<b>Other Information</b>	No further relevant information available.

## 12 Ecological Information

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<b>12.1 Ecotoxicity</b>	
<b>Fresh Water Species</b>	
Sodium Azide	96 h LC50 Oncorhynchus mykiss: 0.8 mg/L; 96 h LC50 Lepomis macrochirus: 0.7 mg/L; 96 h LC50 Pimephales promelas: 5.46 mg/L [□ow-through]
CAS # 26628-22-8	
<b>Microtox</b>	No information available.
<b>Water Flea</b>	No information available.
<b>Fresh Water Algae</b>	No information available.
<b>12.2 Persistence and degradability</b>	Not determined for the product.
<b>12.3 Bioaccumulation</b>	Not determined for the product.
<b>12.4 Mobility in soil</b>	Not determined for the product.
<b>12.5 Results of PBT and vPvB assessment</b>	Not determined for the product. PBT: Not applicable, vPvB: Not applicable.
<b>12.6 Other Adverse Effects</b>	This product contains environmentally hazardous substance below the cutoff level. Refer section 3 for ingredient information. Do not allow undiluted product to enter sewer/surface or ground water.

## 13 Disposal Considerations

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<b>13.1 Waste treatment methods</b>	
<b>Product Waste Disposal</b>	Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information. Sodium azide preservative may form explosive compounds in metal drain lines. See NIOSH Bulletin: Explosive Azide Hazard (8/16/76). To avoid the possible build-up of azide compounds, □ush wastepipes with water after the disposal of undiluted reagent. Sodium azide disposal must be in accordance with appropriate local regulations.

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**Package disposal**

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

**13.2 Additional information**

Suggested European waste catalogue 18 01 07 - chemicals other than those mentioned in 18 01 06. Dispose in accordance with national, state and local waste regulations.

## 14 Transport Information

Transportation of this product is not regulated under ICAO, IATA DGR, IMDG, US DOT, European ADR and RID or Canadian TDG.

**14.1 UN/ID Number:** Not regulated for transportation

**14.2 Shipping Name:** Not regulated for transportation

**14.3 Hazard Class:** Not regulated for transportation

**14.4 Packing Group:** Not regulated for transportation

**14.5 Environmental Hazards:** Not regulated for transportation

**14.6 Special Precautions for user:** None

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable

## 15 Regulatory Information

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US** **Federal and State Regulations**

**SARA 313** Sodium Azide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

**CERCLA RG's, 40 CFR 302.4** Sodium Azide is listed.

**California Proposition 65** No ingredients listed.

**Massachusetts MSL** Sodium Azide is listed.

**New Jersey Dept. of Health RTK List**

Sodium Azide is listed.

**Pennsylvania RTK** Sodium Azide is listed.

### **EU Regulations**

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

**Water Hazard Class (Germany)** WGK 1, low water endangering

**REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.**

No ingredients listed.

**According to EC Directives (1999/45/EC and 67/548 EEC)**

Not classified as dangerous per EC Directives (1999/45/EC and 67/548 EEC)

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**Canada**

This product does not meet WHMIS criteria for hazardous materials.

**PIN** Not applicable

**Ingredients on Ingredient Disclosure List**

Sodium Azide

**Ingredients with unknown toxicological properties**

None

**15.2 Chemical Safety Assessment** A Chemical Safety Assessment has not been carried out.

*Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.*

**16 Other Information**

<b>Aline Biosciences Safety Rating</b>	<b>Flammability: 0</b> <b>Health: 1</b> <b>Reactivity with Water: 0</b> <b>Physical Contact: 1</b>	Code 0=None 1=Slight 2=Caution 3=Severe
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<b>Revision Changes</b>	Updated Section 3
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**Hazard Class, hazard statements and risk phrase description from section 3**

N - Dangerous for the environment

T+ - Very toxic

R28 Very toxic if swallowed.

R32 Contact with acids liberates very toxic gas.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Aquatic Acute 1 - Aquatic Hazard Acute, Category 1

Acute Tox. Oral 2 - Acute Toxicity Oral, Category 2

Aquatic Longterm 1 - Aquatic Hazard Long term, Category 1

H300 - Fatal if swallowed.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.



## 16 Other Information (Continued)

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### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists  
ADR and RID - European Agreement Concerning The International Carriage Of Dangerous Goods By Road and Rail  
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act  
CLP - Classification, Labeling and Packaging  
DFGMAK - Republic Germany's maximum exposure limit  
GHS - Globally Harmonized System  
HCS - Hazard Communication Standard  
IARC - International Agency for Research on Cancer  
IATA DGR - International Air Transport Association Dangerous Goods Regulation  
ICAO - International Civil Aviation Organization  
IMDG - International Maritime Dangerous Goods  
IOELVs - European Unions' Indicative Occupational Exposure Limit Values  
NIOSH - National Institute for Occupational Safety and Health  
NTP - National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
PBT - Persistent bioaccumulative and toxic substances  
SARA - Superfund Amendments and Reauthorization Act  
TDG - Canadian Transportation Of Dangerous Goods Regulations.  
UN GHS - United Nations Globally Harmonized System  
US DOT - United States Department of Transportation  
WHMIS - Workplace Hazardous Material Information System  
vPvB - Very persistent and very bioaccumulative substances  
LC50 - Lethal Concentration, 50%  
LD50 - Lethal Dose, 50%

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