

MATERIAL SAFETY DATA SHEET

Doc. ID: C-1003 Rev. 003

Revised (month/day/year) 08/11/2012

1 Company and Product Identification

Product Name - PCRClean

Part Number- C-1003-5; C-1003-50; C-1003-250

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

Manufacturer / Supplier:

ALINE Biosciences LLC

175-KK New Boston Street

Woburn, MA 01801 USA

E-mail: info@alinebiosciences.com

Emergency information: 1-888-987-3677/ 24h

2 Hazards Identification

Emergency Overview

Brown; Clear with brown precipitate; Liquid; Odorless

Nonflammable aqueous solution

Does not meet EU, OSHA or WHMIS criteria for hazardous materials.

Potential Health Effects Summary- This product does not meet EU, OSHA OR WHMIS criteria for hazardous materials, however contact may cause irritation of skin, eyes, or respiratory system. See Section 11 Toxicological Information for more detailed health information.

Potential Environmental Effects- Not available

Product Hazard Classifications Meets Hazardous Criteria for Preparation/Mixture

EU: Not applicable

WHMIS: Not applicable

US OSHA: Not applicable

3 Composition and Information on Ingredients

Hazardous Ingredients: None

4 First Aid Measures

Inhalation If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.

Skin Contact In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Remove contaminated clothing and shoes. If pain or irritation occurs, obtain medical attention.

Ingestion If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

5 Fire Fighting Measures

Flammable Properties Nonflammable aqueous solution.

Extinguishing Media Use extinguishing media suitable for surrounding fire.

Special Fire and Explosion Hazards- No special hazards determined.

Hazardous Combustion Products- No combustion products posing significant hazards are expected from this product (a dilute aqueous solution).

Protective Equipment for Firefighters- Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

6 Accidental Release Measures

Personal Precautions Use good laboratory procedures; avoid eye and skin contact.

Spill and Leak Procedures- Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.

Environmental Precautions- Contain spill to prevent migration.

7 Handling and Storage

Handling Precautions Use good laboratory procedures; avoid eye and skin contact.

Recommended Storage Conditions- To maintain efficacy, store according to the instructions in the product labeling. Keep away from incompatible material (see Section 10).

8 Exposure Controls and Personal Protection

Exposure Limits

US OSHA: None established

ACGIH: None established

DFG MAK: None established

NIOSH None established

Japan None established

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

Respiratory Protection Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Eye Protection Safety glasses or chemical goggles should be worn to prevent eye contact.

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

Skin Protection Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact.

Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

9 Physical and Chemical Properties

General Information

Physical State Liquid

Color Brown

Transparency Clear with brown precipitate

Odor Odorless

Odor Threshold Not applicable

pH 8.0 - 8.4

Change in condition

Freezing Point Not available

Boiling Point Not available
Flash Point Not applicable
Evaporation Rate Not available
Flammability (Solid, Gas) Not applicable
Flammable Limits Not available
Vapor Pressure Not available
Vapor Density Not available
Specific Gravity ≈ 1.127
Solubility- Water Miscible
Organic Not available
Coefficient of Water/Oil Distribution- Not available
Autoignition Temp. Not applicable
Decomposition Temperature Not available
Percent Volatiles Not applicable

10 Stability and Reactivity

Stability Stable in closed containers under normal temperatures and pressures.
Hazardous Incompatibilities Strong acids, Strong bases, Strong oxidizers, Metals and metallic compounds:
Hazardous Decomposition Products
 No decomposition products posing significant hazards would be expected from this product (a dilute aqueous solution).
Conditions to Avoid contact with incompatible materials.

11 Toxicological Information

Toxicity Data
for Hazardous Ingredients Not applicable
Primary Routes of Exposure- The most likely routes of exposure are skin and eye contact. Inhalation may occur if mists are formed in product use.
Potential Effects of Acute Exposure- None identified.
Potential Effects of Chronic Exposure- None identified.
Symptoms of Overexposure None identified.
Carcinogenicity No ingredients in this product are listed as carcinogens by:
 ACGIH (American Conference of Industrial Hygienists)
 IARC (International Agency for Research on Cancer)
 NTP (National Toxicology Program)
 OSHA or 67/548/EEC. (Occupational Safety & Health Administration)
Other Effects None identified.
Conditions Aggravated by Exposure- None identified.

12 Ecological Information

Ecotoxicity No information available.
Biodegradability No information available.
Bioaccumulation No information available.
Mobility No information available.
Other Adverse Effects No information available.

13 Disposal Considerations

Waste 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.

14 Transport Information

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

15 Regulatory Information

US Federal and State Regulations

SARA 313 No ingredients listed

CERCLA RG's,

40 CFR 302.4 No ingredients listed.

California Proposition 65 No ingredients listed.

Massachusetts MSL No ingredients listed.

New Jersey Dept. of Health RTK List- No ingredients listed

Pennsylvania RTK No ingredients listed.

EU Labeling Classification- Preparation not classified.

Canada- This product does not meet WHMIS criteria for hazardous materials.

PIN: Not applicable

Ingredients with unknown toxicological properties: None

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

ALINE Biosciences Safety Rating

Code

0=none

1=slight

2=caution

3=severe

Flammability (Section V): 0

Health (Section XI): 1

Reactivity with Water (Section X): 0

Contact (Section VIII): 1

Revision Changes Revised manufacturer's address in Section 1

This MSDS complies with EC Regulation 1907/2006 (REACH)

For further information, please contact your local ALINE BIOSCIENCES representatives.

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