SAFETY DATA SHEETS FOR CLEANING AGENTS

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Polar Dynamics Robotics, Inc.

Effective Date: January 1, 2024

Document Reference: PDR-SDS-2024-001

1. PURPOSE AND SCOPE

- 1. This document contains the Safety Data Sheets (SDS) for all clean
- 2. These SDS apply to all cleaning agents used in the BlueCore(TM)

2. PRÍMARY CLEANING AGENTS

Chemical Composition: Proprietary blend of modified alcohol ethoxylar Physical Properties: Clear liquid, freezing point -58 F (-50 C) Hazard Classification: Category 2 (moderate) Emergency Procedures: See Section 5

Storage Requirements: Sealed container, temperature range -60 F to

2.1. CryoClean-X(TM) (Proprietary Cold-Resistant Surface C

2.2. FrøstGuard-7(TM) (Sensor Array Cleaning Solution)
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Chemical Composition: Modified siloxanes (45-50%), synthetic hydroxidal composition (45-50%), synthetic hydroxi
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Physical Properties: Low-viscosity liquid, freezing point -67 F (-55 C
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Hazard Classification: Category 1 (mild)
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3. HANDLING AND SAFETY PROTOCOLS

Storage Requirements: UV-protected container, temperature range -7

1. Personal Protective Equipment (PPE)

Emergency Procedures: See Section 5

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Chemical-resistant gloves (nitrile, minimum 15 mil thickness)
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Safety goggles with side shields
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Cold-environment protective clothing
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Respiratory protection when used in enclosed spaces
2. Application Procedures
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Maintain ventilation requirements per OSHA standard 1910.134
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Apply only in designated maintenance areas
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Maximum application temperature: 50 F (10 C)

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Minimum application temperature: -40 F (-40 C)

4. EMERGENCY RESPONSE PROCEDURES

1. Spill Management

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Contain spill using appropriate absorbent materials

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Notify facility safety coordinator

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Document incident per EPA requirements

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Dispose of contaminated materials per Section 6

2. First Aid Measures
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Eye Contact: Flush with water for 15 minutes
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Skin Contact: Remove contaminated clothing, wash affected area
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Inhalation: Move to fresh air, seek medical attention
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Ingestion: Do not induce vomiting, seek immediate medical attention
5. STORAGE AND HANDLING
1. Storage Requirements
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Temperature-controlled environment (-60 F to 86 F)

- 6 Segregated from incompatible materials
 Secondary containment required
 Monthly inventory reconciliation

FIFO (First In, First Out) rotation policy

2. Transportation

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DOT Classification: Non-hazardous

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UN Number: Not applicable

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Packing/Group: III

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Limited Quantity Exceptions: Apply per 49 CFR 173.150

6. DISPOSAL PROCEDURES

1. Waste Classification

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Non-RCRA hazardous waste

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EPA Waste Code: None

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State-specific requirements may apply

2. Disposal Methods

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Licensed waste disposal facility only

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Container triple-rinsing required

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Documentation retention: 3 years

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Annual disposal audit required

7. REGULATORY COMPLIANCE

1. Applicable Regulations

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OSHA Hazard Communication Standard (29 CFR 1910.1200)

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- California Proposition 65 compliant - REACH Registration (EU) compliant - Nocumentation Requirements - Monthly inspection records - Employee training records - Exposure monitoring data - Incident reports

8. REVISION AND CONTROL

1. Document Control
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Review Frequency: Annual
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Next Review Date: January 1, 2025
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Document Owner: Safety Compliance Manager
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Version: 2024.1
2. Change History
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2024.1: Initial release

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Previous versions: None

CERTIFICATION

The undersigned hereby certifies that this Safety Data Sheet compilate complete and accurate as of the effective date stated above.

/s/ _

Sarah Nordstrom

Chief Operating Officer

Polar Dynamics Robotics, Inc.

Date: January 1, 2024