

# User Manual: NexBot Robotics 733-005 Cleaning Solvent

SKU: NXB-GEN-733-005 | Version: 1.0 | Brand: NexBot Robotics

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## 1. Safety Information

**READ ALL SAFETY INSTRUCTIONS BEFORE OPERATION.** Failure to follow safety procedures may result in serious injury or equipment damage.

**DANGER:** Solvent is flammable. Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Ground/bond container and receiving equipment.

**WARNING:** Causes serious eye irritation and potential skin irritation. Wear protective gloves, eye protection, and face protection. Avoid breathing fumes or vapors.

**CAUTION:** Use only in a well-ventilated area or with appropriate respiratory protection. Inadequate ventilation can lead to vapor concentrations that cause dizziness or asphyxiation.

**NOTICE:** Use only on NexBot Robotics approved materials and components. Use on incompatible materials such as certain plastics or coatings may cause irreversible damage.

**NOTICE:** Store in a cool, dry, well-ventilated location away from direct sunlight and incompatible materials. Do not store in unlabeled containers.

## 2. Product Overview

NexBot Robotics 733-005 Cleaning Solvent (NXB-GEN-733-005) is a cleaning solvents used in industrial robotics equipment where category-specific fit, electrical or mechanical compatibility, and predictable serviceability are important to buyers. The product should be understood as the exact component named by its category path, not as a complete robot or a generic service item. It supports installation, replacement, and maintenance workflows in robotic production cells by giving procurement and maintenance teams a clearly defined part class, relevant engineering specifications, and application context that matches the actual hardware being purchased.

## 3. Getting Started

### 1. Product Identification

NexBot Robotics 733-005 Cleaning Solvent (SKU: NXB-GEN-733-005) is a high-purity cleaning agent formulated specifically for the maintenance of NexBot robotic components. It is designed to remove grease, oil, and particulates without leaving a residue, ensuring optimal performance and longevity of sensitive equipment.

### 2. Safety Data Sheet (SDS)

Before any use, all personnel must read and understand the Safety Data Sheet (SDS) provided with this product. The SDS contains critical information regarding hazards, handling, storage, first-aid measures, and emergency procedures.

### 3. Storage and Handling

Store the product in its original anodized aluminum container with the cap tightly sealed. The designated storage area must be cool, dry, and well-ventilated, away from incompatible chemicals and ignition sources. Follow a First-In, First-Out (FIFO) inventory system to ensure product efficacy.

## 4. Operation

### Manual Cleaning Application

For spot cleaning, apply a small amount of NXB-GEN-733-005 to a clean, lint-free wipe. Gently rub the surface to be cleaned until the contaminant is removed. Use a second clean, dry wipe to remove any excess solvent.

**Tip:** Always test the solvent on a small, inconspicuous area first when cleaning a new material to ensure compatibility.

### Automated Dispensing Systems

When used in an automated cleaning station or reservoir, ensure the system is calibrated for the viscosity and flow rate of this solvent. Refer to the specific robotic equipment manual for system settings and priming procedures.

## Surface Preparation

Before applying the solvent, ensure the target surface is free of large, loose debris. Use a soft brush or low-pressure compressed air to remove any particles that could cause scratching during the cleaning process.

## Effective Dwell Time

For heavily soiled components, allow the solvent to dwell on the surface for a short period (typically 30-60 seconds) to break down contaminants. Do not allow the solvent to pool or dry completely on the surface, as this may leave a residue.

**Tip:** Gentle agitation with a solvent-compatible brush can significantly improve cleaning effectiveness on stubborn grime.

## 5. Maintenance Schedule

Interval	Task	Notes
Daily	Check fluid levels in all active automated dispensing systems. Refill as necessary.	Low fluid levels can introduce air into the system, causing inconsistent cleaning.
Weekly	Inspect the solvent storage area for any signs of spills or container leaks. Ensure all containers are properly sealed.	Promptly address any spills according to SDS guidelines.
Monthly	Inspect nozzles and applicators on dispensing equipment for clogs or blockages. Clean per equipment specifications.	Dried solvent residue is a common cause of blockages.
Quarterly	Review inventory and check expiration dates on all stock. Rotate stock to ensure older product is used first (FIFO).	Expired solvent may lose its cleaning efficacy.
Annually	Empty and clean solvent reservoirs in automated systems to remove any accumulated sediment or contaminants.	This prevents circulation of contaminated fluid, which can damage parts.
As Needed	Replenish materials in the designated chemical spill kit.	Ensure the kit is always ready for an emergency.

## 6. Troubleshooting

Symptom	Possible Cause	Solution
White residue or streaks remain on components after cleaning.	Solvent was allowed to dry on the surface, or the cleaning wipe was contaminated.	Re-clean the area, ensuring you wipe the surface dry with a clean, lint-free cloth before the solvent evaporates. Use fresh wipes for each application.

Symptom	Possible Cause	Solution
Cleaning performance is poor; grime is not being removed.	Solvent may be expired, contaminated, or incorrect for the type of soil.	Verify the solvent's expiration date. Replace with fresh NXB-GEN-733-005 solvent. Ensure the soil is within the solvent's specified cleaning capabilities.
Plastic or painted surfaces appear hazy, soft, or tacky after cleaning.	The solvent is incompatible with the surface material.	Immediately cease use on that material. Consult the NexBot Robotics material compatibility chart or technical support. The damage may be irreversible.
Automated dispenser nozzle is clogged or spraying unevenly.	Dried solvent residue or particulate contamination has blocked the nozzle orifice.	Follow the equipment manufacturer's procedure for purging and cleaning the nozzle. Use only approved tools to clear the orifice to avoid damage.
A strong solvent odor is present in the work area.	Inadequate ventilation, an open container, or a spill.	Immediately improve ventilation by opening doors or activating exhaust fans. Locate and seal any open containers or clean up spills according to the SDS.
User experiences skin redness or irritation after handling.	Direct skin contact with the solvent due to improper or missing PPE.	Wash the affected area thoroughly with soap and water for 15 minutes. Consult the SDS for first-aid measures. Always wear specified chemical-resistant gloves.

## 7. Technical Specifications

Parameter	Value	Unit
Weight	1.8	kg
Material	Anodized Aluminum	
Voltage	400/480VAC 3-Phase	
IP Rating	IP20	
Country of Origin	US	
Protocol	EtherCAT	
Dimensions	220 x 75 x 180 mm	