



Maintenance Solutions

Arctic Kleen NF

Non-Flammable Freezer Cleaner



For Use On:

Floors
Walls
Freezers

Concrete
Racks

DESCRIPTION

A ready to use freezer cleaner for floors, walls, and equipment in sub-freezing areas in temperatures to -5°F. Helps in melting existing ice formations and will not harm concrete or leave any slippery residues.

DIRECTIONS

AUTOMATIC SCRUBBER: Equip machine with aggressive pad such as steel wire and fill supply tank with ready to use cleaner. Double-scrub procedure will give best results. Lay down solution with scrubbing action and allow solution to remain on surface 5 minutes - then lower squeegee blade, scrubbing again, and pick up.

CONVENTIONAL ROTARY FLOOR MACHINE: Equip machine with aggressive brush such as steel wire. Spray, mop, or spread ready to use cleaner on surface, scrub and allow solution to remain on surface for 5 minutes. Scrub again and pick up soiled solution with wet vacuum or mop.

MANUAL CLEANING: Apply cleaner by spray, mop, or sponge and follow by aggressive double brushing or scrubbing. Pick up soiled solution with wet vacuum, mop, or by wiping.

PRODUCT SPECIFICATIONS

Active Ingredients:	40.0 ± 0.5%	Emulsification:	Excellent
Color:	Clear	Detergency:	Excellent
Odor:	Characteristic	Flash Point:	None
pH:	12.0 - 13.0	Biodegradability:	Complete
Viscosity:	Water thin	Storage/Stability:	2 years
Foam:	Low	Weight per Gallon:	8.58 lbs./gal.
Abrasives:	None	Freezing Point:	-5°F
Phosphate Content:	None		

NAR

MATERIAL SAFETY DATA SHEET

N/A= Not Applicable

Prepared by: Regulatory Affairs Dept.

(Prepared According to 29 CFR 1910.1200)

Effective Date: 1/02 Revision: n/a

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605 Manufacturer's Phone #: (610) 926-4106	Product Name: Arctic Kleen NF Generic Name: Freezer Locker Cleaner Chemical Family: Glycol/Detergent Blend Formula: Proprietary	Supplier's Name: Supplier's Address: Supplier's Phone #:
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SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Ethylene Glycol	107-21-1	20 to 30			
2-Butoxyethanol	111-76-2	10 to 20			
Nonionic Surfactant	9016-45-9	0 to 5			
Potassium Hydroxide	1310-58-3	< 1.0			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212 F.
Vapor Pressure: 20mm Hg @ 68 F.
% Volatile: 95+
Solubility in Water: Complete
Physical Description: Thin clear liquid with pleasant odor.

Specific Gravity: 1.03
Vapor Density (Air=1): >1
pH: 12.0 – 13.0
Evaporation Rate (Water=1): <1

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A
Upper Explosion Limit: N/A
Extinguishing Media: N/A
Special Firefighting Procedures: Non Flammable
Unusual Fire and Explosion Hazards: N/A

SECTION 5-REACTIVITY DATA

Stability: Stable**Hazards Decomposition Products:** Will not occur.**Hazardous Polymerization:** None**Incompatibility (Materials to Avoid):** Strong acids and oxidizers.

SECTION 6-STORAGE AND HANDLING INFORMATION

Avoid contact with eyes, skin and clothing. Wear rubber gloves and protective eyewear when handling. Avoid breathing of mists. Harmful if swallowed. Use in well-ventilated area. Keep out of reach of children. For use by trained personnel only. Keep container closed during storage. For institutional and industrial use only.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

Skin: Repeated exposure to large amounts may result in absorption through the skin, which may cause damage to kidneys and depression of the CNS.

Eyes: May be slightly irritating to the eyes.

Inhalation: May be irritating to mucous membranes of the nose, throat, and lungs.

Excessive amounts may cause damage to kidneys or CNS depression.

Ingestion: May cause nausea and vomiting. Large doses can cause CNS depression and kidney damage.

First Aid Procedures:

Skin: Remove contaminated clothing. Wash with soap and water. Seek medical attention if irritation persists.

Eyes: Flush with large quantities of water. Seek medical attention.

Inhalation: Get to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.

Ingestion: Induce vomiting immediately. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements.

Ventilation Requirements: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.

Protective Gloves: Chemical resistant rubber or neoprene.

Eye Protection: Chemical splash goggles or full-face shield when handling.

Other Protective Equipment: Eyewash station should be provided nearby.

SECTION 9-SPILL OR LEAK PROCEDURES

Steps to be taken in Case Material is Released or Spilled: Floors will become slippery. Avoid walking in product. Keep unessential personnel away. Mop up or otherwise absorb and hold disposal. Avoid discharge to sewer or open waterways.

Waste Disposal Method: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Consult local authorities for disposal in public sewer. Do not disposal of into storm drain, stream, river or to ground. Rinse container thoroughly before discarding in trash.

SECTION 10-REGULATORY INFORMATION

SARA Title III - Section 311/312 -Hazard Categories:

No - Fire Hazard

No - Sudden Release of Pressure Hazard

No - Reactivity Hazard

Yes - Immediate (acute) Health Hazard

Yes - Delayed (chronic) Health Hazard

Shipping Information:

FOR CONTAINERS > 1 Gallon : Cleaning Compound

FOR 1 GALLON CONTAINERS : Cleaning Compound

FOR CONTAINERS < 1 GALLON : Cleaning Compound

HMIS Hazardous Materials Identification System

Health	3
Flammability	0
Reactivity	0
Personal Protection	D

FOR EMERGENCY MEDICAL OR TRANSPORT INFORMATION: CHEM-TEL, Inc. @ 800-255-3924 (24 hours, 7 days per week)

This product contains the following toxic chemical(s) subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	Chemical Name	Percent by Weight
107-21-1	Ethylene Glycol	22.0%
111-76-2	2-butoxyethanol (Glycol Ether N-230)	11.0%

This product contains the following chemical(s) which have been established to be either a carcinogen or suspected carcinogen.

CAS#	Chemical Name	Percent by Weight
	None	

SECTION 11-OTHER INFORMATION

This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of our products either alone or in combination with other products. It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. This company will accept no liability for damages or loss incurred from the improper handling and use of this product