

SAFETY DATA SHEET

Date issued : 02/13/2015

SDS number : NAR

Date revised : 06/18/2025

Revision number : 3

Arctic Kleen NF

1. Identification

Product code: NAR

Product identifier: Arctic Kleen NF

Product description: Non Flammable Freezer Cleaner

Chemical family: Glycol/alkali blend

Relevant identified uses: Cleaning sub-freezing surfaces in freezer lockers and cold storage warehouses.

Manufacturer / Supplier

MISCO Products Corporation

1048 Stinson Drive

Reading, PA 19605

Customer Service: 800-548-4568

Transportation: 800-548-4568

Emergency telephone number (24 hour)

VelocityEHS (Medical and Transportation): 800-255-3924

POISON CONTROL CENTER (Medical): 800-222-1222

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Acute Toxicity (Oral), Category 4

Skin Irritation, Category 2

Eye Irritation, Category 2A

Specific Target Organ Toxicity (Repeated exposure - Oral), Category 2

Label elements



Exclamation mark



Health hazard

Signal word: WARNING

Hazard statement(s)

H302: Harmful if swallowed.

H315: Causes skin irritation.

H373: May cause damage to organs (Kidney) through prolonged or repeated exposure if swallowed.

H319: Causes serious eye irritation.

Preccautionary statement(s)

Prevention:

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P233: Keep container tightly closed.

P102: Keep out of reach of children.

P260: Do not breathe fumes, gas, mist, vapors or spray.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water

P332+P313: If skin irritation occurs: Get medical advice/attention.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P309+P311: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

Storage:

P404: Store in a closed container.

P405: Store locked up.

Disposal:

P501: Dispose of contents/container according to all local, state and Federal regulations.

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Glycol	35 - 40	107-21-1
Butoxyethanol	5 - 10	111-76-2
Potassium Hydroxide	0 - 1	1310-58-3
Nonoxynol	0 - 1	127087-87-0
Water	80 - 85	7732-18-5

4. First-aid measures

Eye: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: DO NOT DELAY. Do not induce vomiting. If victim is alert, rinse mouth and drink 1/2 to 1 glass of water to help dilute the material. Do not give liquids to a drowsy, convulsing, or unconscious person. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove victim to fresh air and monitor. Seek medical advise if irritation develops or persists.

Most important symptoms and effects, both acute and delayed

Eye: Severe burning sensation, tearing, redness, swelling.

Skin: Prolonged contact will cause irritation marked by redness, burning sensation.

Skin absorption: Not Established

Ingestion: Irritation of mouth, throat, along with upset stomach, vomiting.

Inhalation: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

Acute effects: Not Established

Indication of immediate medical attention and special treatment needed, if necessary: Kidney toxicity may be recognized by blood in the urine or increased or decreased urine flow. Other signs and symptoms can include nausea, vomiting, abdominal cramps, diarrhoea, lumbar pain shortly after ingestion, and possibly narcosis and death. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing.

Additional information: IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT! May cause significant renal, respiratory, and CNS toxicity. May cause significant acidosis. Call a doctor or poison control center for guidance.

5. Fire-fighting measures

Flammable class: NA = Not Applicable

General hazard: NA = Not Applicable

Suitable extinguishing media: Not required. Water based material.

6. Accidental release measures

Small spill: Avoid runoff into storm sewers and ditches which lead to waterways.

Large spill: Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

Environmental precautions

Water spill: Avoid discharges into open waterways and notify your local emergency services if this occurs.

Land spill: Avoid discharge to soil.

General procedures: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

Special protective equipment: Eye protection, rubber gloves, rubber boots to protect feet.

7. Handling and storage

General procedures: Do not contaminate water, food, or feed by storage or disposal.

Precautions for safe handling: Wear eye protection, rubber gloves when handling concentrate.

Conditions for safe storage: Store in area inaccessible to children.

Storage temperature: Store at ambient temperatures.

Storage pressure: Store at ambient atmospheric pressure.

8. Exposure controls/personal protection

Exposure controls

Chemical name	Control parameters			
	Occupational exposure limit values			
Type	ppm	mg/m ³		
Glycol	ACGIH TLV	TWA		100
	Supplier OEL	STEL	50	127
Butoxyethanol	OSHA PEL	TWA	50	240
	ACGIH TLV	TWA	20	97
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Potassium Hydroxide	OSHA PEL	TWA		2 mg/m ³
	ACGIH TLV	STEL		2 mg/m ³

Appropriate engineering controls: Provide mechanical ventilation when used in confined areas, or areas with poor ventilation.

Individual protection measures, such as personal protective equipment

Eye / face protection: Chemical splash goggles.

Skin protection - hand protection: Rubber or other chemical resistant gloves. Rubber boots if used on floors.

Respiratory protection: A respirator is not needed under normal and intended conditions of product use.

Skin protection - other: Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

Occupational hygiene practices: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. Physical and chemical properties

Physical state: Liquid

Color: Water Clear

Odor: Characteristic.

Odor threshold: Not Established

pH: 11.8 to 13.0

Melting point: Not Available

Freezing point: < -20.56°C (-5.0°F)

Initial boiling point and boiling range: 212° F; 100° C

Flash point: None

Evaporation rate (n-butyl acetate = 1): (Water =1) <1.0

Lower explosion limit / flammability limit: N/A

Vapor pressure: ≤ 20 mm Hg at (68°F)

Relative vapor density: ≤ 1 Air = 1

Density: 8.60 at (68°F)

Relative density: 1.031 grams/ml.

Solubility: Complete

Auto-ignition temperature: NA = Not Applicable

Decomposition temperature: Not Available

Viscosity: Water thin.

Percent volatiles: >60

VOC content: 9.45 % by weight

10. Stability and reactivity

Reactivity: Stable

Dangerous polymerization: No

Conditions to avoid: Not Established

Possibility of hazardous reactions: None Expected.

Hazardous decomposition products: None known.

Incompatible materials: Strong acids, oxidizers.

11. Toxicological information

Acute toxicity

Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Glycol	502.5 mg/kg (rat)	9530 mg/kg (rat)	No data available
Butoxyethanol	1300 mg/kg (rat)	> 2000 mg/kg (rabbit)	> 3.1 mg/l
Potassium Hydroxide	273 mg/kg (rat)	No data available	No data available
Nonoxynol	960 to 3980 mg/kg (rat)	2000 to 2991 mg/kg (rabbit)	1.15 mg/L

Acute dermal toxicity LD₅₀: Not Established

Acute oral toxicity LD₅₀: Not Established

Acute inhalation toxicity LC₅₀: Not Established

Serious eye damage / irritation: Irritant

Respiratory or skin sensitization: No known significant effects or critical hazards.

Germ cell mutagenicity: No known significant effects or critical hazards.

Carcinogenicity

Chemical name	IARC
Butoxyethanol	Group 3 - Not classifiable as to its carcinogenicity to Humans

IARC:

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of Butoxyethanol in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

Reproductive toxicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity - single exposure: Can cause kidney damage with prolonged or repeated oral exposure.

12. Ecological information

Ecotoxicological information: Not Established

Aquatic toxicity, both acute and chronic: Not Established

Persistence and degradability: Not Established

Environmental data: Not Established

13. Disposal considerations

Disposal methods: Any method in accordance with local, state and federal laws. Best method is to recycle or reuse for intended purpose. Small amounts (less than 1 gallon) may be diluted with copious amounts of water and disposed of into sanitary sewer.

For large spills: Consult with local and state authorities for large volume disposal.

Product disposal: See above.

Empty container: Rinse container with clear water. Offer container for recycling, or dispose of in trash.

RCRA/EPA waste information: NA = Not Applicable

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Cleaning Compound, not regulated.

Technical name: Cleaning Compound, not regulated.

ADR / RID - road / rail

UN proper shipping name: Cleaning Compound, not regulated.

ICAO - air

UN proper shipping name: Cleaning Compound, not regulated.

IMDG - sea

UN proper shipping name: Cleaning Compound, not regulated.

15. Regulatory information

UNITED STATES

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Health Hazard - Acute; Health Hazard - Chronic

313 reportable ingredients: Ethylene Glycol, 2-butoxyethanol 111-76-2 (Category: N230 Certain Glycol Ethers);

Nonylphenol Ethoxylates (NPEs).

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.	Comments
Glycol	35 - 40	107-21-1	
Butoxyethanol	5 - 10	111-76-2	N230 Certain Glycol Ethers
Nonoxynol	0 - 1	127087-87-0	N535 Nonylphenol Ethoxylates

EPCRA Section 302 Extremely Hazardous Substances

EPCRA Status: NA = Not Applicable

CERCLA Hazardous Substances and Reportable Quantities (RQ)

Chemical name	% w/w	CERCLA rq
Glycol	35 - 40	5,000 lbs.
Potassium Hydroxide	0 - 1	1,000 lbs.

TSCA (The Toxic Substances Control Act)

TSCA regulatory: All ingredients are listed on the TSCA Chemical Inventory.

States with special requirements

Chemical name	Requirements
Glycol	Massachusetts Right to Know Substance New Jersey Right To Know Substance Pennsylvania Right to Know Substance
Butoxyethanol	Massachusetts Right to Know Substance Pennsylvania Right to Know Substance New Jersey Right To Know Substance
Potassium Hydroxide	Massachusetts Right to Know Substance Pennsylvania Right to Know Substance New Jersey Right To Know Substance Rhode Island Right to Know Substance
Nonoxynol	Massachusetts Right to Know Substance New Jersey Right To Know Substance Pennsylvania Right to Know Substance

California Proposition 65: "WARNING: This product can expose you to chemicals including Ethylene Glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov."

Chemical name	% w/w	Listed
Glycol	35 - 40	• Developmental Toxicity

Carcinogen:

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of Butoxyethanol in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

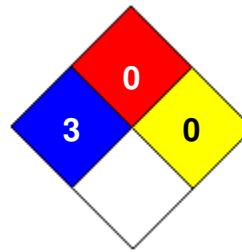
16. Other information

Prepared by: Regulatory Affairs Department Date revised: 06/18/2025

Revision summary: This SDS replaces the 09/27/2021 SDS. Revised: **Section 2:** Classification of the substance or mixture, Cancer statement, Carcinogenicity, Emergency overview (Physical appearance), Medical conditions aggravated, Mutagenicity, Potential health effects (Skin protection - hand protection, Skin absorption, Inhalation, Ingestion), Reproductive toxicity, Routes of entry, Sensitization, Teratogenic effects, Warning caution labels. **Section 14:** ICAO - air - UN proper shipping name USA Department of Transport Regulations (DOT) (Technical name, Transport hazard class(es), UN number, Packing group, if applicable, Placards, Hazard label, Environmental hazards - marine pollutant), ADR / RID - road / rail - UN proper shipping name IMDG - sea (Environmental hazards - marine pollutant, Placards, Hazard label, Technical name, Transport hazard class(es), Packing group, if applicable, UN number). **Section 16:** HMIS rating - Personal protection.

HMIS rating		
Health	<input type="checkbox"/>	3
Flammability	<input type="checkbox"/>	0
Physical hazard	<input type="checkbox"/>	0
Personal protection	<input type="checkbox"/>	c

NFPA codes



Additional SDS information: Rev 0.1.0

Manufacturer disclaimer: 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 the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.