



Maintenance Solutions

Force

Non-Acid Drain Opener



For Use On:

Hair	Greases	Vegetable Oils
Animal Fat	Starches	Organic Matter

DESCRIPTION

A non-acid drain opener that is non-fuming and safe for use on all plumbing fixtures, septic tanks, garbage disposals, and porcelain. Pours through standing water, so clogged drains do not have to be emptied first. Will dissolve starches, fats, oils, greases, hair, vegetable gums and other organic wastes.

DIRECTIONS

Open carefully. Slowly pour directly into drain opening. Avoid all splashing. If spilled, clean up immediately. Keep off aluminum, plastic, and floors.

FOR CLOGGED DRAINS: No need to remove standing water. Use 1/2 bottle and allow to work for 30 minutes. If necessary, repeat operation and allow to work for 1 hour. Flush with warm water.

FOR SLOW DRAINS: Use 1/4 bottle twice at 15 minute intervals, flush with warm water.

FOR PREVENTING FUTURE PROBLEMS: Use 1/4 bottle weekly. Allow to stand 30 minutes. Flush with water.

PRODUCT SPECIFICATIONS

Active Ingredients:	13.0 ± 0.5%	Acid Content:	None
Color:	Clear	Fumes:	None
Odor:	Not objectionable	Emulsification:	Excellent
Base:	Potassium hydroxide	Flash Point:	None (waterbased)
pH:	13.5 - 14.0	Biodegradability:	Complete
Viscosity:	Water thin	Storage/Stability:	2 years
Foam:	None	Weight per Gallon:	11.68 lbs./gal.
Abrasives:	None	Freeze / Thaw Stability:	Keep from freezing
Phosphate Content:	None		

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation	Product Name: Force	Supplier's Name:
Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605	Generic Name: Non-Acid Drain Opener	Supplier's Address:
Manufacturer's Phone #: (610) 926-4106	Chemical Family: Alkaline Detergent Blend	Supplier's Phone #:
	Formula: Proprietary	

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Potassium Hydroxide	1310-58-3	10 to 15	N/A	C2mg/M ³	N/A
Sodium Hypochlorite	7681-52-9	0 to 5			
Anionic Surfactant	N/A	0 to 5			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 211 F.	Specific Gravity: 1.134
Vapor Pressure: 20mm Hg @ 68 F.	Vapor Density (Air=1): >1
% Volatile: 75+	pH: 13.5-14.0
Solubility in Water: Complete	Evaporation Rate (Water=1): <1
Physical Description: Thin clear liquid with characteristic odor.	

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None	Lower Explosion Limit: N/A
Upper Explosion Limit: N/A	Special Firefighting Procedures: Non Flammable
Extinguishing Media: N/A	Unusual Fire and Explosion Hazards: N/A

SECTION 5-REACTIVITY DATA

Stability: Stable	Hazardous Polymerization: None
Hazards Decomposition Products: Alkaline vapors in a fire.	Incompatibility (Materials to Avoid): Strong acids. Aluminum contact may release hydrogen gases

SECTION 6-STORAGE AND HANDLING INFORMATION

CORROSIVE. Avoid contact with eyes, skin and clothing. Wear rubber gloves and eye protection when handling. Wash hands immediately after use. Keep out of reach of children. For use by trained personnel only. Keep container tightly closed during storage. For institutional and industrial use only. Avoid breathing of vapors. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: Severe skin irritant. May cause moderate reddening, swelling, and possible skin damage.
Eyes: Severe eye irritant. Liquid and mists may damage eyes, causing corneal damage.
Inhalation: Vapors and mists may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating and corrosive to the mouth and throat. May cause headache, nausea, abdominal pain, vomiting, and diarrhea. Excessive amounts may cause collapse.
First Aid Procedures:
Skin: Flush with water. Seek medical attention if irritation persists.
Eyes: Flush with large quantities of water, holding eyelids open. Seek medical attention if irritation persists.
Inhalation: Get to fresh air. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. Drink large quantities of water. Seek medical attention immediately.

SECTION 8-SPECIAL PROTECTION INFORMATION

Respiratory Protection: Use in well-ventilated area.
Ventilation Requirements: Provide local exhaust to keep TLV of Section 2 ingredients below acceptable limit.
Protective Gloves: Chemical resistant rubber, alkaline resistant.
Eye Protection: Safety glasses or full-face shield recommended.
Other Protective Equipment: Eye wash. Protective clothing should be worn when handling.

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. For large spills, 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. If discarded, this material and containers should be treated as hazardous waste based on the characteristic of corrosivity as defined under federal RCRA regulations (40 CFR 261). Consult local authorities for disposal in public sewer. Do not dispose 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 Yes - Reactivity Hazard Yes - Immediate (acute) Health Hazard No - Delayed (chronic) Health Hazard	Shipping Information: FOR CONTAINERS > 1 Gallon: Compounds, cleaning liquid, (Potassium Hydroxide), 8, NA-1760, PG III FOR 1 GALLON CONTAINERS: Compounds, cleaning liquid, (Potassium Hydroxide), 8, NA-1760, PG III (Limited Quantity) FOR CONTAINERS < 1 GALLON : ORM-D	HMIS Hazardous Materials Identification System								
		<table border="1"> <tr> <td>Health</td> <td>3</td> </tr> <tr> <td>Flammability</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>1</td> </tr> <tr> <td>Personal Protection</td> <td>D</td> </tr> </table>	Health	3	Flammability	0	Reactivity	1	Personal Protection	D
Health	3									
Flammability	0									
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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
	None	

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