



Maintenance Solutions

Suspend

**Spontaneous
Emulsifier**



For Use On:

Floors	Machinery	Equipment
Walls	Desks	Stainless Steel
Concrete	Refrigerators	Plastic
Engines	Tables	Vinyl
Tools	Plastic	Porcelain
Chrome	Food Processing	

DESCRIPTION

A unique blend of saponifying agents designed to instantly emulsify grease and oily soil. Attacks grease and soils on contact making this the ideal product for use with automatic scrubbers and pressure washers. May also be used with conventional mop and bucket or spray applications.

DIRECTIONS

FOR USE IN AUTOMATIC SCRUBBERS: Dilute 32 to 64 ounces of concentrate (depending on soil conditions) to each 10 gallons of water in the solution tank.

FOR USE IN PRESSURE WASHERS: Adjust spray nozzle to deliver 1 part concentrate to 30-60 parts water depending on soil conditions. Rinse thoroughly with clear water.

FOR STEAM CLEANING: Dilute 4-6 ounces of concentrate per gallon of water and adjust tank valve according to soil conditions. Rinse thoroughly with clear water.

MOP OR SPRAY CLEANING: Dilute 1-8 ounces of concentrate per gallon of water depending on soil conditions and apply to surface with mop or sprayer. Agitate and pick-up, wipe clean or rinse thoroughly with clear water.

FOR SOAK TANKS: Dilute 12 ounces of concentrate per gallon of water. Rinse parts thoroughly with clear water.

This product meets the maximum content requirements for Volatile Organic Compounds (VOCs) as established by state and Federal regulations.

PRODUCT SPECIFICATIONS

Active Ingredients:	23.0 \pm 0.5%	Emulsification:	Excellent
Color:	Blue	Detergency:	Excellent
Odor:	Characteristic	Rinsability:	Complete with water
pH:	13.0 - 13.5	Flash Point:	None (waterbased)
Viscosity:	Water thin	Biodegradability:	Complete
Foam:	Low	Storage/Stability:	2 years
Abrasives:	None	Weight per Gallon:	9.15 lbs./gal.
Solubility:	Complete with water	Freeze / Thaw Stability:	Keep from freezing

Cleaner / Degreasers

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation	Product Name: Suspend
Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605	Generic Name: Spontaneous Emulsifier
Manufacturer's Phone #: (610) 926-4106	Chemical Family: Alkaline Detergent Blend
	Formula: Proprietary

SECTION 2-INGREDIENT INFORMATION

CHEMICAL NAME	CAS NO.	WT. %	PEL	TWA-TLV	STEL-TLV
Water	7732-18-5	to 100			
Sodium Metasilicate	6834-92-0	10 to 15			
Nonionic Surfactant	9016-45-9	0 to 5			
Potassium Hydroxide	1310-58-3	0 to 5	N/A	C2mg/M ³	N/A
Dimethyl Benzyl Ammonium Chloride	68424-85-1	0 to 5			
Tetrasodium EDTA	64-02-8	0 to 5			
Dye	N/A	0 to 5			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 210 F.	Specific Gravity: 1.074
Vapor Pressure: 20mm Hg @ 68 F.	Vapor Density (Air=1): >1
% Volatile: 80+	pH: 13.0-13.5
Solubility in Water: Complete	Evaporation Rate (Water=1): <1
Physical Description: Slightly viscous blue liquid with characteristic odor.	

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): N/A	Lower Explosion Limit: 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	Hazardous Polymerization: None
Hazards Decomposition Products: Alkaline vapors in a fire.	Incompatibility (Materials to Avoid): Strong acids.

SECTION 6-STORAGE AND HANDLING INFORMATION

Keep out of reach of children. For use by trained personnel only. Keep unauthorized personnel away when applying to floor. Keep container closed during storage. For institutional and industrial use only. Corrosive. Avoid contact with eyes, skin and clothing. Wear rubber gloves and eye protection when handling. Avoid breathing of vapors or mists. Use in well-ventilated area.

SECTION 7-HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:
Skin: Skin irritant. May cause moderate reddening and swelling.
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 or neoprene.
Eye Protection: Chemical splash goggles or full-face shield.
Other Protective Equipment: Eye wash station nearby. Chemical resistant rubber outerwear and rubber boots when using.

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. 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
No - 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

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
	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