



Maintenance Solutions

Formula X05

Cleaner/Degreasers



For Use On:

- | | | |
|----------|-----------|-----------------|
| Floors | Tools | Tables |
| Walls | Machinery | Porcelain |
| Concrete | Desks | Stainless Steel |
| Engines | | Plastic |
| | | Vinyl |

DESCRIPTION

A ready to use cleaner and degreaser formulated to remove grease, oil, carbon, or any other industrial soil from concrete, machinery, engines, floors, walls, etc. Non-toxic, non-corrosive, non-flammable. Can be used on all surfaces not harmed by water.

DIRECTIONS

Simply spray on to surface to be cleaned, wait several minutes and wipe off with a clean absorbent cloth, towel or sponge. For heavy soils, allow to soak several minutes, then agitate with brush, then rinse clean. Avoid contact with windows or other glass surfaces.

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

PRODUCT SPECIFICATIONS

Color:	Green	Detergency:	Excellent
Odor:	Characteristic odor	Biodegradability:	Complete
pH:	12.0 – 13.0	Solubility:	Complete with water
Viscosity:	Water thin	Flash Point:	None
Foam:	Moderate	Storage/Stability:	2 years
Emulsification:	Excellent	Weight Per Gallon:	8.74 lbs. per gallon

SECTION 1-PRODUCT IDENTIFICATION AND SUPPLIER INFORMATION

Manufacturer's Name: Misco Products Corporation	Product Name: Formula X05	Supplier's Name:
Manufacturer's Address: 1048 Stinson Drive Reading, PA 19605	Generic Name: Ready-to-Use Heavy Duty Spray Cleaner	Supplier's Address:
Manufacturer's Phone #: (610) 926-4106	Chemical Family: Alkaline Detergent	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			
2-Butoxyethanol	111-76-2	0 to 5	25 ppm	25 ppm	N/A
Potassium Alkyl Aryl Sulfonate	27177-77-1	0 to 5			
Potassium Tall Oil Soap	61790-44-1	0 to 5			
Nonionic Surfactant	9016-45-9	0 to 5			
Monoethanolamine	141-43-5	0 to 5			
Sodium Metasilicate	6834-92-0	0 to 5			
Fragrance	N/A	< 1			

SECTION 3-PHYSICAL DATA

Boiling Point (°F): 212 F.	Specific Gravity: 1.047
Vapor Pressure: 20mm Hg @ 68 F.	Vapor Density (Air=1): >1
% Volatile: 85+	pH: 12.0 – 13.0
Solubility in Water: Complete	Evaporation Rate (Water=1): <1
Physical Description: Thin green liquid with characteristic odor.	
VOC Content: 3.0% (wt/wt), 0.26 lbs/gal., 15.5 grams/liter	

SECTION 4-FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None (waterbased)
Upper Explosion Limit: N/A
Lower 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

WARNING: Eye Irritant. May cause skin irritation with prolonged or repeated contact. Avoid contact with eyes, skin and clothing. Wear rubber gloves, chemical splash goggles and protective outerwear when handling. Avoid breathing of vapors or mists. 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: Moderate skin irritant. Prolonged or repeated contact may cause redness, dermatitis.
Eyes: Eye irritant. Liquid and mists will cause tearing, redness, burning sensation.
Inhalation: Vapors and mists may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating 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: Immediately 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: Safety glasses or chemical splash goggles.
Other Protective Equipment: Wear protective rubber footwear when using on floor. Wear protective outerwear when danger of mist contact may occur.

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 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:	Shipping Information:	HMIS Hazardous Materials Identification System
No - Fire Hazard	FOR CONTAINERS > Cleaning Compound	Health 2
No - Sudden Release of Pressure Hazard		Flammability 0
No - Reactivity Hazard	FOR 1 GALLON CONTAINERS: Cleaning Compound	Reactivity 0
Yes - Immediate (acute) Health Hazard		Personal Protection B
No - Delayed (chronic) Health Hazard	FOR CONTAINERS < 1 GALLON: Cleaning Compound	

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
111-76-2	Glycol Ether	3% max.

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