

Betco Corporation

Material Safety Data Sheet

(Prepared According To CFR 1910.1200)

Effective Date: 10/ 1/95

N/A=Not Applicable

SECTION 1 - PRODUCT IDENTIFICATION

NPCA Hazardous Materials Identification System

Product Number: 402
 Product Name: Es-Steam
 Generic Name: Low Foam Extraction Cleaner
 Supplier's Name: Betco Corporation
 Supplier's Address: 1001 Brown Ave., Toledo Ohio 43607

Chemical Family: N/A
 Formula: N/A
 Phone Number: (419) 241-2156
 Emergency:

Health:	2
Flammability:	0
Reactivity:	0
Max. Personal Protection:	B

SECTION 2 - INGREDIENTS

CHEMICAL NAME	CAS NO.	WT	PEL	TWA	STEL	CARCINOGEN
Water	7732-18-5	to 100				No
Anionic Surfactant	5324-84-5	5 to 10				No
Sodium Metasilicate	6834-92-0	5 to 10				No
Tetrasodium EDTA	64-02-8	0 to 5				No
Nonionic Surfactant	34398-01-1	0 to 5				No
Nonionic Surfactant	66455-15-0	0 to 5				No
Propylene Glycol	57-55-6	0 to 5				No
Sodium Xylene Sulfonate	1300-72-7	0 to 5	100 ppm	100 ppm	N/A	No
Optical Brighteners	N/A	0 to 5				No
Perfume Oil	N/A	0 to 5				No
Dye	N/A	0 to 5				No

This product contains the following toxic chemicals 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	% by Weight
112-34-5	Glycol Ether	2.2

SECTION 3 - PHYSICAL DATA

Boiling Range: 214°F Initial pH: 11.8 - 12.8
 Vapor Pressure: 20mm Hg @68°F Specific Gravity: 1.1
 Volatility: 75+ Evaporation Rate: (Water=1):<1
 Density: (Air=1):>1
 Solubility in Water: 1
 Physical Description: Thin green liquid with pleasant odor.

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

Propellant Flash Point:
 Concentrate Flash Point:
 Flash Point (Method Used): None to boiling. (TCC)
 Upper Expl. Limit: N/A Lower Expl. Limit: N/A
 Extinguishing Media: N/A
 Special Fire Fighting Procedures: N/A
 Unusual Fire and Expl. Hazards: N/A

SECTION 5 - REACTIVITY DATA

Stability: Stable. Hazard. Polymerization: Will not occur.
 Incompatibility (Materials to Avoid): Strong acids.

SECTION 6 - STORAGE AND HANDLING INFORMATION

Precautions to be Taken in Handling and Storage:
 Keep out of reach of children. Keep container closed during storage. For institutional and commercial use.

Hazardous Decomposition: None known.

SECTION 7 - HEALTH HAZARDS AND FIRST AID

Effects of Overexposure:

Primary Route of Entry:

Skin: Skin irritant. May cause redness or swelling. Prolonged or repeated contact may cause dermatitis.
Eyes: Severe eye irritant. Liquid and mist may damage the eyes causing corneal injury.
Inhalation: Vapors may be irritating to mucous membranes in the nose, throat, and lungs.
Ingestion: Irritating to the mouth, throat, and gastrointestinal system. Large doses may cause vomiting and diarrhea.

First Aid Procedures:

Skin: Remove contaminated clothing. Flush affected area with water. Seek medical attention if irritation persists.
Eyes: Flush eyes with large quantities of water. Seek medical attention if irritation persists.
Inhalation: Get to fresh air. Seek medical attention if irritation persists.
Ingestion: Do not induce vomiting. Drink a large quantity of water. Seek medical attention immediately.

SECTION 8 - SPECIAL PROTECTION INFORMATION

Respiratory Protection: No special requirements.

Protective Gloves: Waterproof.

Other Protective Equipment: N/A

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

Eye Protection: Safety glasses.

SECTION 9 - SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:
 Mop up or otherwise absorb and hold for disposal.

Waste Disposal Method:
 Any method in accordance with applicable laws.

B.