

MATERIAL SAFETY DATA SHEET

I. PRODUCT NAME AND MANUFACTURER

PRODUCT NAME: EMERALD FLEXO CLEANER CONCENTRATE

MSDS NO. 200006

MATTHEWS INTERNATIONAL CORPORATION
PACKAGING GRAPHICS & DESIGN DIVISION
252 Park West Drive
Pittsburgh, PA 15275
(412) 788-2111

II. PRODUCT INGREDIENTS

INGREDIENTS	%	CAS NO.	PEL	TLV
Potassium Hydroxide	1-5	1310-58-3	NE*	C2.0mg/m3

* NE: Not Established

III. POTENTIAL HEALTH EFFECTS

EMERGENCY OVERVIEW: Thin green liquid, bland odor. Corrosive material. Contact with skin or eyes can cause severe irritation.

EYES: Eye contact with solution or mist can cause severe irritation, blurred vision, redness and tearing.

SKIN: Skin contact can cause irritation, burning or rashes.

INHALATION: Not expected under normal use conditions.

INGESTION: May cause vomiting and/or diarrhea.

IV. FIRST AID

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally, for at least 15 minutes. Seek medical attention.

SKIN: Immediately flush the affected area with large amounts of water. Remove contaminated clothing as water is applied. Seek medical attention.

INHALATION: Not applicable, not expected under normal product use conditions.

INGESTION: If swallowed, do not induce vomiting. Rinse mouth. Dilute with a large volume of milk or water. Call poison control center, hospital emergency room or physician immediately.

V. FIREFIGHTING INSTRUCTIONS

FLASH POINT (Method Use): Not Applicable

FLAMMABLE LIMITS: Not Applicable

AUTO-IGNITION TEMPERATURE: Not Applicable

EXTINGUISHING MEDIA: Does not apply, product will not support combustion under normal product use conditions.

SPECIAL PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers should be kept cool, may explode in heat of fire.

VI. ACCIDENT RESPONSE MEASURES

CHEMTREC TELEPHONE: 800-424-9300

NATIONAL SPILL RESPONSE CENTER: 800-424-8802

SMALL SPILL: Dam off area and remove to leak-proof containers. Working solutions may be diluted to normal usage ratio and flushed to sanitary sewers in accordance with applicable local regulations.

MATTHEWS INTERNATIONAL CORP

Product Name: Emerald Flexo Cleaner Concentrate **MSDS # 200006**

VII. SAFE HANDLING AND STORAGE

Store containers away from strong acids. Keep away from sanitary sewer drains. Do not take internally. Close container after each use. Empty containers must not be washed and reused for any purpose.

VIII. ENGINEERING CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Control airborne concentrations below the exposure limits. Use only with adequate ventilation.

RESPIRATORY: None
GLOVES: Neoprene
EYE / FACE: Chemical splash goggles.
OTHER PPE: None

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 214 F, 101 C	MELTING POINT: NA
VAPOR PRESSURE: No data	VAPOR DENSITY (Air =1): >1
VOLATILE BY VOLUME: 83%	SPECIFIC GRAVITY (H2O =1):1.12, 9.3 lb/gal
SOLUBLE IN WATER? 100%	ODOR AND APPEARANCE: Thin green liquid with bland odor.

X. STABILITY AND REACTIVITY

STABILITY:	Normally stable.
CONDITIONS TO AVOID:	Strong acids.
INCOMPATIBILITY:	Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS:	None.
HAZARDOUS POLYMERIZATION:	Will not occur.

XI. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Effects vary (concentration, length of exposure) from mild irritation to burns. Inhalation - coughing, sore throat, dyspnea, pulmonary edema. Skin - reddening to severe burns. Eyes - irritation to burns with corneal and episcleral destruction. Ingestion - severe pain to mouth, throat, abdomen with vomiting, diarrhea. Ingestion victims may experience perforation (gastric, esophageal), severe pain, rigidity and hypertension; penetrating burns may occur for several days.

CHRONIC TOXICITY

Bronchial irritation or pneumonia, gastrointestinal disturbances, dermatitis can occur.

XII. ECOLOGICAL INFORMATION

Product is corrosive and may cause damage to aquatic life forms in its pure state. When diluted with a large amount of water or neutralized using a weak acid, this material is not expected to have a significant environmental impact.

XIII. DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, provincial and local regulations. Observe precautions for disposal of corrosive materials. Used portions of Emerald Flexo Cleaner are considered a hazardous waste if the pH of the solution is greater than or equal to 12.5 under Federal Hazardous Waste Regulations (40CFR 261). RCRA Waste Code Classification: D002. NOTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Under RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste. (40CFR 261.20-24)

MATTHEWS INTERNATIONAL CORP

Product Name: Emerald Flexo Cleaner Concentrate **MSDS#200006**

XIV. TRANSPORTATION INFORMATION

US DOT DESCRIPTION: Potassium Hydroxide Solution, 8, UN1814, PGII
LABEL: Corrosive

XV. REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: All components in this product are considered hazardous ingredients.

HMIS: Health 2 Flammability 0 Reactivity 0

CLEAN AIR ACT: This product does not contain any hazardous air pollutants under section 112 of the 1990 Clean Air Act.

CERCLA/SARA 40 CFR 117, 302: No extremely hazardous substances are contained in this product.

REPORTABLE QUANTITIES: Potassium Hydroxide - 1000lb

SECTION 311/312 HAZARD CATEGORIES: Acute Health

SECTION 313 TOXIC CHEMICALS: None

STATE REGULATIONS: No applicable requirements found.

TSCA: All ingredients are included on the TSCA Inventory list.

CANADA: All ingredients are on the domestic substance list.

XVI. OTHER INFORMATION

MSDS # 200006 Original issue date: 9/26/85 Revised: 11/30/01 Prepared by: M.A. Remlinger & Chris Spataro
09/30/05 Discontinued 5/21/10

The information contained herein is based upon what we believe to be reliable data. However, we make no warranty or guarantee, expressed or implied, concerning the accuracy of such information and disclaim all liability from reliance thereon. You should evaluate the information through your own sources prior to use.