



## Esma-Compound Remover E484

### Ultrasonic Compound Remover (Concentrate)

**DESCRIPTION:** Esma Compound Remover E484 is a mildly acidic cleaning solution. When used in conjunction with Esma Ultrasonic cleaning and rinsing units, Esma Compound Remover E484 is excellent at removing drawing oils and buffing compounds.

Esma Compound Remover E484 is designed for use in industrial ultrasonic cleaners and washers. Esma Compound Remover E484 is suitable for use on certain brass and stainless steel, not recommended on copper and most aluminums. Esma Compound Remover E484 offers convenience and economy as a concentrated liquid cleaner and is suitable for automatic chemical feeding. Esma Compound Remover E484 is free-rinsing and safe to use due to its mild acidity.

#### PROPERTIES:

Appearance	Light Amber
pH (100%)	Acidic
Odor	Mild
Foaming	Moderate
Rinsing	Complete
Specific Gravity	1.3

#### DIRECTIONS:

For use in ultrasonic tanks dilute to 1 part concentrate with 2 parts water.

Temperature: Ambient - 200 °F

#### PRECAUTIONS:

Mildly acidic solution, may cause eye and skin irritation. AVOID CONTACT WITH SKIN AND EYES. Refer to MSDS.



ESMA Incorporated  
450 Taft Drive  
South Holland, IL 60473  
800-276-2466

**MATERIAL SAFETY DATA SHEET**

## Section 1- Product Identification and Use

Product Identifier—Compound Remover

Product Identification Number—E484

Product Use—Cleaning Compound

Manufacturer's Name—Esma, Inc.

450 W. Taft Drive

South Holland, IL 60473

1-800-246-2466

Emergency Telephone Numbers— US/North America: Chemtrec 800-262-8200 24 hrs everyday

International: Chemtrec 703-527-3887

## Section 2 - Components

Ingredients	%	CAS Number
Inorganic Acid	under 10%	7664-38-2
Mild wetting Agent	under 2%	
Non Ionic Surfactant	under 2%	9016-45-9
Organic Acid	under 40%	79-14-1

## Section 3 Physical Data

Physical State—Liquid

Odor Threshold—N/A

Specific Vapor Density—.6 Air=1

Evaporation Rate—Slower than Ether

Percent Volatiles 30%

Odor and Appearance—Lt Amber/Mild odor

Vapor Pressure—11.2 mm Hg

Specific Gravity—1.3

Boiling Point—224 degrees F

PH-Acidic

## Section 4 - Fire and Explosion Data

Flammability—No

Flash Point—N/A

Explosive Limit (% by Volume) - N/A

Auto Ignition Temp.—No Data

Hazardous Combustion Products (may form)

Acid Vapors, Hydrogen, Carbon Dioxide

Explosion Data—Sensitivity to Impact—N/A

Sensitivity to Static Discharge—N/A

## Section 5 - Reactivity Data

Chemical Stability—Stable

Incompatibility—Organic and Inorganic Chemicals

Reactivity—Strong Alkalies

Hazardous Decomposition

May form: --Carbon Dioxide, Acid Vapors, Hydrogen

## Section 6 - Toxicological Properties

Route of Entry—Eyes, Skin/Skin Absorption, Breathing, Swallowing

Effects of Acute Overexposure—

Eyes—May cause severe damage and even blindness

Skin—Skin absorption is possible; exposure may cause irritation and possible ulceration.

Breathing—Fumes can cause irritation and damage to nasal/respiratory passages.

Swallowing—Can result in damage to mucous membranes and deep tissues.

## Section 6 - Toxicological Properties – cont.

## MSDS-E484

Effects of Chronic Exposure - Chronic irritation of the eyes and chronic inflammation of nose, throat, and lungs.

Exposure Limits—No exposure limits established.

Irritancy of Product—Skin, Eyes, Nose, and Throat

Sensitization to Product—N/A

Carcinogenicity—NO

Teratogenicity—N/A

Reproductive Toxicity—NO

Mutagenicity—NO

Synergistic Products—N/A

### Section 7 - Preventive Measures

Personal Protective Equipment—

Gloves—Rubber, Neoprene

Eyes—Chemical Splash Goggles

Clothing—Lab Coat

Engineering Controls—Mechanical Ventilation Sufficient

Leak and Spill Procedure—Cover the contaminated surface with sodium bicarbonate or a soda ash/slaked lime mixture (50/50). Collect for disposal, wash site with soda ash/water solution

Waste Disposal—Dispose according to federal, provincial/state, and local regulations

Handling Procedures—Persons must wear proper personal protective equipment.

Storage Requirements—Store away from incompatible materials.

Special Shipping Information—

DOT Information—49CFR172.101

-DOT Description—

-- Corrosive Liquid, Acidic, Organic, N.O.S. (GLYCOLIC ACID), 8, UN3265, 111

-Labeling Exceptions for Class 8—49CFR173.154

--Each package may not exceed 30 kg (66 pounds)

--Inner packaging not over 4.0 L (1 gallon)

### Section 8 - First Aid Measures

Skin—Immediately flush exposed area with running water for at least 15 minutes; if ulceration, get medical help; remove contaminated clothing and launder prior to reuse; discard contaminated shoes.

Eyes—Immediately flush with large amounts of running water for at least 15 minutes, lifting upper and lower lids. Get immediate medical attention; if physician unavailable continue flushing with water; do not use chemical antidote.

Swallowing—Dilute by drinking water and milk of magnesia, then induce vomiting; never give anything orally to unconscious person; get immediate medical help.

Breathed—Move individual to fresh air; if breathing difficult administer oxygen; if breathing has stopped, give artificial respiration; keep person warm, quiet, and get immediate medical help.

NOTE TO PHYSICIANS—No Data.

### Section 9 - Other Information

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

### Section 10- Preparation Date of MSDS

Prepared by—Tim Beezhold Op/Mgr

708-331-1855

May 25, 2004