



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. E484 is also very effective in removal of mild weld stains and other oxides on stainless steel and as a spot rust remover as well.

Esma Compound Remover E484 is designed for use in industrial ultrasonic cleaners and washers and 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.



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MATERIAL SAFETY DATA SHEET

Product Name: Compound Remover E484

Date Issued: December 11, 2013

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: Compound Remover

Chemical Synonym : E484

Formula : Multi-component mixture

Chemical Family: Mild Acid

Supplier : Esma Incorporated

Emergency Telephone : (800)276-2466

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)
Inorganic Acid	7664-38-2	under 10%
Mild wetting Agent		under 2%
Non Ionic Surfactant	9016-45-9	under 2%
Organic Acid	79-14-1	under 40%

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 3 : HAZARD IDENTIFICATION

Emergency Overview : Solutions and powders are severe eye irritants, and prolonged or repeated contact may cause skin irritation. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract. Read the entire MSDS for a more thorough evaluation of the hazards.

POTENTIAL HEALTH EFFECTS: Acute: May cause severe irritation to the eyes. Dusts and mists are irritating to the skin, mucous membranes, and upper respiratory tract.

Chronic: Prolonged or repeated skin contact may result in dermatitis. Prolonged or repeated eye contact may result in conjunctivitis. May irritate respiratory airways, mucous membranes and eyes.

Inhalation: May cause mucous membrane irritation with sore throat, coughing, and shortness of breath.

Eye Contact: May cause irritation with redness, pain, possible eye burns, conjunctivitis, ulceration, and permanent cloudiness.

Skin Contact: May cause irritation with swelling, redness, and pain.

Ingestion: May cause acute gastrointestinal irritation with abdominal pain.

SECTION 4 : FIRST AID MEASURES

General: Consult a physician.

Eye Contact: Immediately flush contacted area repeatedly with water for at least 15 minutes, holding eyelids open. Contact a physician for treatment.

Skin Contact: Immediately flush contacted area repeatedly with soap and water for at least 15 minutes. If irritation persists, contact a physician for treatment.

Inhalation: Move victim to fresh air. If irritation persists, seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Give large quantities of water.

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point : None

Method Used: N/A

Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: None required.

Fire Fighting Procedures: Use caution when fighting any fire. Adequate respiratory protection is essential. Hazardous Combustion Products (may form)

Acid Vapors, Hydrogen, Carbon Dioxide **Unusual Fire and Explosion**

Hazards: None known.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Small Spill: Absorb with suitable absorbant such as sand or vermiculite.

Large Spill: Stop leak at source and contain spill with dike made of inert material such as sand or diatomaceous earth. Pump material to suitable container for possible reuse.

Solid spill: Sweep up and return to container.

Deactivating Chemicals: Mild acids such as dilute phosphoric will bring the pH to a neutral range.

SECTION 7 : HANDLING AND STORAGE

Handling: Handle with care. Wash thoroughly after handling. Launder contaminated clothing before reuse.

Storage Requirements: Keep container closed. For Industrial and commercial use only!

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: None required.

Ventilation / Local Exhaust : General room ventilation.

Ventilation / Mechanical Recommendations: None required.

Skin Protection: Vinyl or rubber protective gloves.

Eye Protection: Goggles or face shield.

Other Protective Equipment: Vinyl apron (optional).

Exposure Guidelines: See section 2 for ACGIH recommendations for each hazardous ingredient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Lt Amber/Mild odor

Water Solubility: Complete

pH (1%): 2.0-3.0

Specific Gravity: 1.3 **Boiling Point (°F):** 224

Evaporation Rate (water=1): N/A

% volatile: 30%

Vapor Density (air=1): .6

Vapor Pressure (mmHg): 11.2 mm Hg

SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: None.

Chemical Stability: Stable.

Conditions to Avoid: Splashing solutions, prolonged skin contact.

Incompatibility with other Substances: Strong bases and oxidizing agents.

Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Data: Toxicological studies were not performed on the blended product, although it is considered to be a severe eye irritant, and moderately irritating to the skin.

Toxicological Data (as Citric Acid):

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

Carcinogenicity: This product does not contain any materials considered to be Carcinogenous according to OSHA, NTP, IARC, or ACGIH.

SECTION 12 : ECOLOGICAL INFORMATION

Exotoxicological Information: No data found for this product.

Environmental Effects: No data found for this product.

Persistence and Degradation: No data found for this product.

Ecological Information:

Mobility : Completely soluble.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Neutralize spent solutions to an acceptable pH level. Allow oils to separate and decant if possible. Detergent portion is 100% biodegradable.

Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? No

If yes, the RCRA ID number is : N/A

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 24 hour number : (607)737-6737

DOT Proper Shipping Name: Corrosive Liquid, Acidic, Organic, N.O.S. (GLYCOLIC ACID), 8, UN3265, 111

DOT Hazard Class / Product Identification Number / Packing Group / DOT Label: NOIBN

DOT Information-49CFR172.101

-DOT Description-

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-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 15 : REGULATORY INFORMATION

OSHA CLASSIFICATION (USA): **Physical:** No data found for this product.

Health: No data found for this product.

Target Organ: No data found for this product.

SARA Regulations 313 and 40 CFR 372: This product does not contain any materials listed under 40 CFR 372.65a.

Other Regulations / Legislation which apply to this product: None known.

SECTION 16 : OTHER INFORMATION

NFPA Rating : **HEALTH:** 1 **FLAMMABILITY:** 0 **REACTIVITY:** 0

NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Information and data compiled to compose this MSDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.