



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.



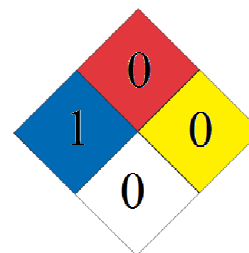
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SECTION 1 - PRODUCT IDENTIFICATION**Chemical family:** Detergent Blend**C A S number:** Not applicable**Formula:** Trade secret**SECTION 2 - HAZARDOUS INGREDIENTS****Common name:** Inorganic Acid < 10 % by weight**C A S #:** 7664-38-2**Common name:** Glycolic Acid < 40 % by weight**C A S #:** 79-14-1**Common name:** Mild Wetting Agent < 2 % by weight**C A S #:** 9016-45-9**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 - PHYSICAL AND CHEMICAL PROPERTIES**Appearance:** Light Amber**Odor:** Mild odor**Boiling point:** 224⁰ F/107⁰ C**Vapor pressure:** Not available**Vapor density (Air = 1):** 11.2 mm Hg**Solubility in water:** Complete**Specific gravity (Water = 1):** 1.3**pH of solution:** 2.0 – 3.0

SECTION 5 - FIREFIGHTING MEASURES

Flash point:	None
Auto-ignition temperature:	Not available
Flammability limits:	Not available
Extinguishing media:	None required
Special firefighting procedures:	None required
Fire/explosion hazards:	Not available

SECTION 6 - STABILITY AND REACTIVITY

Stability:	Stable
Hazardous polymerization:	Will not occur
Conditions to avoid:	Avoid contact with hot solutions; splashing solutions, prolonged skin contact
Incompatible materials:	Strong bases, Oxidizers
Hazardous decomposition products:	None

SECTION 7 - HANDLING AND STORAGE

Handling: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, liquids may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity. Handle with care. Wash thoroughly after handling.

Storage Requirements: Keep container closed. Store in an area that is dry and well-ventilated, away from incompatible materials (see section 10). For Industrial and commercial use only!

Disposal: Dispose of in accordance with all federal, state, and local regulations.

SECTION 8 – HEALTH AND FIRST AID MEASURES**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.

Serious Skin Contact: Not available.

Inhalation:

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

Serious Inhalation: Not available.

Ingestion:

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

Serious Ingestion: Not available.

SECTION 9 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection. None required.

Ventilation I 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 10 – ACCIDENTAL RELEASE MEASURES

Small Spill: Ventilate the area. Stop source of spill. Absorb on inert media and collect into suitable container.

Large Spill: Ventilate the area. Shut off or plug source of spill. Dike area to contain spill. Salvage as much liquid as possible into a suitable container. Absorb residual on inert media and collect into suitable container.

Personal Protection in Case of Large Spill: Splash goggles. Full Suit. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

SECTION 11 - DISPOSAL CONSIDERATIONS

Waste Disposal Method: Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Whatever cannot be salvaged or recycled should be handled a hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approver waste facility. Follow local, state and federal regulations for disposal.

SECTION 12 - TRANSPORTATION INFORMATION

D O T Shipping name:	Corrosive Liquid, Acidic, Organic, N.O.S. (GLYCOLIC ACID)
Hazard Class:	8
I D Number:	UN3265
Packing Group:	III
Label(s) required:	Corrosive

SECTION 13 - TOXICOLOGY

Carcinogenicity: Not listed by any agency.

Mutagenicity: Not found to be a mutagenic.

Reproductive: No data available.

Sensitization: Not considered a sensitizer

Stability: Stable

Hazardous polymerization: Will not occur

Conditions to avoid: Avoid contact with hot solutions; splashing solutions, prolonged skin contact

Incompatible materials: Strong bases, Oxidizers

Hazardous decomposition products: None

SECTION 14 - REGULATORY INFORMATION

RMP/PSM: Not listed.

CERCLA-RQ: Not established.

EPCRA 311/312: Yes, See Section III.

EPCRA 313: This product does not contain any hazardous ingredients at or above regulated thresholds.

FIFRA: No documented information found.

RCRA-CODE: No Hazardous Waste Identification.

TSCA: Listed on inventory

SECTION 15 - OTHER INFORMATION

The information contained on this Material Safety Data Sheet is considered accurate as of the date of publication. It is not necessarily all inclusive nor fully adequate in every circumstance. The suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, express or implied, of merchantability, fitness, accuracy of data, or the results to be obtained from the use thereof is made. The vendor assumes no responsibility for injury or damages resulting from the inappropriate use of this product.