



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%)	2.0 - 3.0
Odor	Mild
Foaming	Moderate
Rinsing	Complete
Specific Gravity	1.3

DIRECTIONS:

For use in ultrasonic tanks dilute to 10% - 20% by volume.

Temperature: Ambient - **200°F**

PRECAUTIONS:

May cause irritation to the eyes and skin upon contact.

****AVOID EYE CONTACT****

Wear goggles or safety glasses, wash thoroughly after handling. Fatal if swallowed. Keep out of reach of children. Refer to MSDS.



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

SAFETY DATA SHEET

Section 1- Product Identification and Use

Product Name: Compound Remover

Product Identification Number: E484

Product Use: Detergent Solution

Manufacturer's Name: Esma, Inc.

450 W. Taft Drive

South Holland, IL 60473

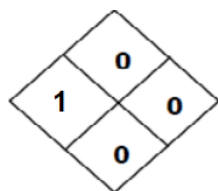
1-800-276-2466

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

International: 800-276-2466

Section 2 - Hazardous Identification

Form : Liquid Color : Clear to slight yellow



NFPA/HMIS Rating:

Health = 1 = slight

Fire, Reactivity, and Special 0 = minimal

Potential Health Effects

Eye Contact: May cause severe damage and even blindness

Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.

Ingestion: Can result in damage to mucous membranes and deep tissues.

Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas which can cause irritation and damage to nasal/respiratory passages

Section 3 - Hazardous Ingredients

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

Section 4 - 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 water for at least 15 minutes. If irritation persists, contact a physician for treatment. Clean contaminated clothing before reuse.

Inhalation: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs, remove 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 1-2 glasses of water to drink, if conscious and alert.

Notes to physician : No Data

Section 5 - Firefighting Measures

Flammability—No

Flash Point—N/A

Explosive Limit (% by Volume)- N/A

Auto Ignition Temp.—No Data

Hazardous Combustion Products (may form)

Ammonia, Carbon Dioxide, Carbon Monoxide, Nitrogen oxides, various Hydrocarbons

Explosion Data—Sensitivity to Impact—N/A

Sensitivity to Static Discharge—N/A

Section 6 - Accidental Release Measures

Personal Precautions: See section 8 – personal protection.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Method for Clean Up: Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

Section 7 - Handling And Storage

Handling: Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children
Leak and Spill Procedure—Absorb liquid on Vermiculite, Floor Absorbent or other absorbent material.

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.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment: Gloves—Rubber, Neoprene

Eyes—Chemical Splash Goggles

Clothing—Lab Coat

Section 9 - Physical And Chemical Properties

Physical State—Liquid

Odor Threshold—N/A

Specific Vapor Density—No Data

Evaporation Rate—Slower than Ether

Percent Volatiles 30%

Odor and Appearance—Clear/Slight Yellow

Vapor Pressure—11.2 mm Hg

Specific Gravity—1.3

Boiling Point—224°F

PH- 2.0-3.0

Section 10 - Stability And Reactivity

Stability: Stable

Hazardous polymerization: Will not occur

Conditions to avoid: Elevated temperatures; enclosed areas; flame and spark sources

Incompatible materials: Oxidizers, strong acids and alkalis, halogenated solvents

Hazardous decomposition products: Various carbon and sulfur oxides

SECTION 11 - TOXICOLOGY

Toxicological Data (as Citric Acid):

Exposure Limits—No exposure limits established.

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

Sensitization to Product—N/A

Teratogenicity—N/A

Mutagenicity—NO

Carcinogenicity—NO

Reproductive Toxicity—NO

Synergistic Products—N/A

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

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.

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

U.S. Department of Transportation (DOT) / Canadian TDG: Not Regulated

IMO / IDMG: Not classified as Dangerous

ICAO/ IATA: Not classified as Dangerous

ADR/RID: Not classified as Dangerous

U.N. Number Not Required

Proper Shipping Name: Detergent Solution

Hazard Class: Non-Hazardous

Marine Pollutant: No

Section 15 - Regulatory Information

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm limit

Section 16 - Other Information

The HMIS Rating : HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0 SPECIAL: 0

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

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