

# Esma-Shine E105

## Ultrasonic Instrument Cleaner (Concentrate)

**DESCRIPTION:** Esma-Shine E105 is a mildly alkaline blended detergent. When used in conjunction with Esma Ultrasonic cleaning and rinsing units, Esma-Shine E105 will aid in the removal of the baked on particulates which give instruments a dull finish. Esma-Shine E105 will not only clean your instruments it will help bring back the shine and luster of newer instruments.

Esma-Shine E105 is designed for use in industrial ultrasonic cleaners and washers. Esma-Shine is suitable for use on stainless steel instruments, not recommended on brass or aluminum alloys. Esma-Shine E105 offers convenience and economy as a concentrated liquid cleaner and is suitable for automatic chemical feeding. Esma-Shine E105 is free-rinsing and safe to use due to its mild alkalinity. Esma-Shine E105 does not contain dyes, perfumes, or preservatives for complete rinsing of instruments and equipment.

## PROPERTIES:

Appearance Clear/Slight Green

pH (100%) 10.5 – 10.8

Odor Mild Foaming Low Rinsing Complete

Lbs./Gal 10.51 (Gravity: 1.26)

#### DIRECTIONS:

For use in ultrasonic tanks dilute to 5% solution (6 oz. per gallon)

For use in automatic ultrasonic wash machines dilute 1:128 (1 oz. per gallon) (\* If using the Esma E789 machine, use 3 – 6 oz. per wash cycle. For difficult soils use 6 – 9 oz. per cycle.)

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

## MATERIAL SAFETY DATA SHEET

#### Section 1- Product Identification and Use

Product Name: Esma Shine Product Identification Number: E105
Product Use: Detergent Solution 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: 800-276-2466

#### Section 2 - Hazardous Identification

Form: Liquid Color: Clear/Slight Green

## NFPA/HMIS Rating:

Health = 1 = slight

Fire, Reactivity, and Special 0 = minimal



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	%	
Ethylenediamine Tetraacetic Acid NA Salt	64-02-8	>25%	
Sodium Glycolate	2836-32-0	>2%	
Nitrilotriacetic Acid Trisodium Salt	5064-31-3	>1%	
Sodium Hydoxide	1310-73-2	>1%	

#### 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

**Explosive Limit (% by Volume)-** N/A **Auto Ignition Temp.**—No Data

Hazardous Combustion Products (may form) Amnonia, Carbon Dioxide, Carbon Monoxide, Nitrogen oxides, various Hydrocarbons

Flash Point—N/A

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.

 $\textbf{Environmental Precautions} : \ \textbf{Do not allow into open waterways and ground water systems}.$ 

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

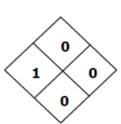
**Handling Procedures**—Persons must wear proper personal protective equipment.

Storage Requirements—Store away from incompatible materials.

#### Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment: Gloves—Rubber, Neoprene

Eyes—Chemical Splash Goggles



#### Section 9 - Physical And Chemical Properties

Physical State—Liquid Odor and Appearance—Clear/Slight Green
Odor Threshold—N/A Vapor Pressure—14mmm Hg at 68.00 F

Specific Vapor Density—No DataSpecific Gravity—1.26Evaporation Rate—Slower than EtherBoiling Point—217 degrees F

Percent Volatiles 42% PH- 10.8

#### 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**

Acute Toxicity: Oral LD50 (rat) > 5 g/kg body weight

**Dermal LD50 (rabbit)** > 5 g/kg body weight

Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT

Number 33

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

## Section 12 - Ecological Information

**Hazard to wild mammals**: Low, based on toxicology profile **Hazard to avian species**: Low, based on toxicology profile **Hazard to aquatic organisms**: Low, based on toxicology profile

Chemical Fate Information: Readily Biodegradable per OECD 301D, Closed Bottle Test

#### Section 13 - 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 14 - Transportation Information

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

IMO / IDMG:Not classified as DangerousICAO/ IATA:Not classified as DangerousADR/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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