



Esma Tarter Cleaner E373

Tarter Cleaner

DESCRIPTION: Esma Tarter Cleaner E373 is a mildly acidic cleaning solution. Specially designed solution for cleaning obnoxious tarter accumulations. Can be used ultrasonically or soaking.

Dentures: Cleans tarter, stains, and other obnoxious accumulations.

Bridge work and crowns: removes temporary and permanent cement.

Orthodontics: cleans retainers, correctors, frankel and

sagittal appliances, Schwartz plates, bionators.

Ready to use, do not dilute.

PROPERTIES:

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

DIRECTIONS:

For use in ultrasonic tanks. Do not dilute. Place parts to be cleaned in a glass beaker and cover part with Tarter Cleaner E373. Treat beaker with ultrasonics or allow to soak if ultrasonics are unavailable.

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—Tartar Cleaner

Product Identification Number—E373

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 Acids	under 7%	7664-38-2
	under 5%	7647-01-0
Mild wetting Agent	under 2%	
Non Ionic Surfactant	under 3%	9016-45-9
Organic Acid	under 25%	79-14-1

Section 3 Physical Data

Physical State—Liquid

Odor Threshold—N/A

Specific Vapor Density—1.2 Air=1

Evaporation Rate—Slower than Ether

Percent Volatiles 30%

Odor and Appearance—Lt Amber/Mild soapy odor

Vapor Pressure—11.2 mm Hg

Specific Gravity—1.26

Boiling Point—196 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 a49nd damage to nasal/respiratory passages.

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

Section 6 - Toxicological Properties

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, N.O.S., 8, UN1760, 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 laundry 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 diving 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