

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TUBMATE ALL PURPOSE

Page 1 of 3

SECTION I

Manufacturers Name: The Hotsy Corporation, Detergent Division
Address: 2621 7th Avenue South Phone Number: 712-362-7737
City, State & Zip: Estherville, Iowa 51334

FOR MEDICAL EMERGENCY : Rocky Mountain Poison Control Center
303-623-5716.

FOR CHEMICAL EMERGENCY: Spill, Leak, Fire, Exposure or Accident
call CHEMTREC - 1-800-424-9300.
Outside U.S. call 202-483-7616

Person Responsible for Preparation: Dean F. Fernholz

Revision Date : September 15, 1994

Supersedes : June 1, 1993

D.O.T. Shipping Class: Cleaning Compound, Class 55

Health Hazards :Health [3]

0 > 4 :Flammability [0]

None- Extreme :Reactivity [0]

SECTION II HAZARDOUS INGREDIENTS

HAZARDOUS	CAS NO.	OSHA PEL	ACGIH TLV	ORAL LD50 Rat	%

Sodium Metasilicate	6834-92-0	NE	NE	800 mg/kg	30-60%
Ethylene Glycol *		25	25		
Monobutyl Ether	111-76-2	ppm	ppm	470 mg/kg	1-5%

* subject to reporting requirements of Section 313 of SARA and 40 CFR Part 372.

SECTION III PHYSICAL AND CHEMICAL CHARACTERISTICS

Boiling Point N.A.	Specific Gravity 1
Vapor Pressure N.A.	Vapor Density (Air=1) N.A.
Solubility in Water: Soluble	Reactivity in Water: None
pH 5% solution = 12.7	Melting Point: Approximately 212 (Deg. F.)
Appearance & Odor: White powder, slight ethereal odor	

SECTION IV FIRE & EXPLOSION DATA

Flash Point: N.A.	Method Used: N.A.	
Flammable Limits in air % by volume	LEL Lower NA	UEL Upper NA
Auto-Ignition Temperature: NA		
Extinguisher Media: Water, Carbon Dioxide, Foam		
Special Fire Fighting Procedures: None		
Unusual Fire & Explosion Hazards: None		

SECTION V PHYSICAL HAZARDS (REACTIVITY DATA)

Stability: Stable [X] Unstable []
Incompatibility (Materials to avoid) : NA
Hazardous Decomposition Products: Heat
Hazardous Polymerization: May occur [] Will NOT occur [x]
Conditions to avoid: NA

SECTION VI HEALTH HAZARDS

Acute: SEE ATTACHED
Chronic: SEE ATTACHED
Signs & Symptoms of Exposure: SEE ATTACHED

Medical Conditions Generally
Aggravated by Exposure: SEE ATTACHED
Carcinogen or Potential Carcinogens: NONE

EMERGENCY FIRST AID:
SEE ATTACHED

ROUTES OF ENTRY :

1. Inhalation : SEE ATTACHED
 2. Eyes : SEE ATTACHED
 3. Skin : SEE ATTACHED
 4. Ingestion : SEE ATTACHED
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SECTION VII SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Handling and storage: Store in cool, dry area.
Keep container closed when not in use.
Other precautions : NONE
In case of spill : Sweep up spilled material.
Waste Disposal : Dispose of in accordance with all Federal,
State and Local pollution control regulations.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiratory Protection: NA
Ventilation : Use with adequate ventilation,
Protective Gloves : Rubber or Plastic
Eye Protection : Safety Glasses or goggles
Other : Waterproof suit and boots may be worn
Hygienic Practices : Wash thoroughly after handling

SECTION IX COMMUNITY RIGHT TO KNOW LIST

<u>Chemical Name</u>	<u>CAS. No</u>
Sodium Metasilicate	6834-92-0
Sodium Tripoly Phosphate	7758-29-4
Ethoxylated Alcohol	Trade Secret (Rohm & Haas)
Ethylene Glycol Monobutyl Ether	111-76-2

NA = Not applicable NE = None established

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, THE HOTSY CORPORATION, DETERGENT DIVISION, MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

TUBMATE ALL PURPOSE

Page 3 of 3

HEALTH HAZARD INFORMATION:

EMERGENCY AND FIRST AID PROCEDURES

EYES: Object is to flush material out immediately then seek medical attention. Immediately flush eyes with large amounts of water for at least 15 minutes forcibly holding lids apart to ensure complete irrigation of all eye and lid tissue. Washing eyes within one (1) minute is essential to achieve maximum effectiveness. SEEK MEDICAL ATTENTION IMMEDIATELY!

SKIN: SEEK MEDICAL ATTENTION IMMEDIATELY. Flush thoroughly with cool water under shower while removing contaminated clothing and shoes. CONTINUE TO FLUSH UNTIL MEDICAL ATTENTION ARRIVES. Discard non-rubber shoes. Wash clothing before reuse.

INHALATION: Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk). If vomiting occurs spontaneously, keep airway clear. SEEK MEDICAL ATTENTION IMMEDIATELY!

ROUTES OF EXPOSURE

INHALATION: Exposure to mist or spray may cause coughing, sneezing or other symptoms of upper respiratory tract irritation. Overexposure may result in lung tissue damage due to corrosive effects.

SKIN: Can be a severe irritant. May be corrosive and cause severe burns if not washed immediately.

EYE CONTACT: Can cause tissue destruction and permanent eye damage if not treated immediately.

INGESTION: Corrosive to mucous membranes of the mouth, throat, esophagus and stomach.

EFFECTS OF OVEREXPOSURE

ACUTE: Irritating and corrosive to eyes, skin, mucous membranes of the respiratory tract, mouth, throat, esophagus and stomach. Can cause permanent corneal damage.

CHRONIC: No known chronic effects.

TOXICOLOGY DATA:

SODIUM METASILICATE

Acute Oral: LD50 (rat) = 800 mg/kg
Skin Irritation (rabbit, 24 hr) = SEVERE 250 mg

Product may be considered highly alkaline.