

MATERIAL SAFETY  
DATA SHEET

Betterbilt Chemical  
3137 26th Street  
Los Angeles Ca 90023  
(323) 266-7111

24-HOUR  
EMERGENCY  
TELEPHONE  
(800) 535-5053

MS-70 Industrial Strength Coin Brightener

PRODUCT ID NO.: 51610

PAGE: 1

\*\*\*\*\*

EFFECTIVE DATE: 10/05/09

PRODUCT ID NO.: 4515

DATE PREPARED: 04/14/10

=====  
This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community Right To Know emergency response reporting requirements under SARA TITLE III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS.

-----  
This MSDS complies with 29 CFR 1910.1200  
(The Hazard Communication Standard)

=====  
SECTION I - PRODUCT IDENTIFICATION

PRODUCT DESCRIPTION: MS-70 Industrial Strength Coin Brightener

D.O.T. PROPER SHIPPING NAME: COMPOUND CLEANING LIQUID  
(POTASSIUM HYDROXIDE AND  
SODIUM GLUCONATE)  
8, NA1760, II

NFPA CODES: HEALTH - 1 FLAMMABILITY - 0 CORROSIVE - 3 REACTIVITY - 0

=====  
SECTION II - COMPONENTS

ETHANOL, 2-BUTOXY  
CAS #: 111-76-2  
PEL: 25 PPM  
TLV: 25 PPM

POTASSIUM HYDROXIDE, LIQUID  
CAS #: 1310-58-3  
PEL: NOT ESTABLISHED  
TLV: NOT ESTABLISHED

SODIUM GLUCONATE  
CAS #: 527-07-1  
PEL: NOT ESTABLISHED  
TLV: NOT ESTABLISHED

SULFONATED SODIUM SALTS  
CAS #: 147732-60-3  
PEL: NOT ESTABLISHED  
TLV: NOT ESTABLISHED

INERT MATERIAL  
CAS #: 7732-18-5  
PEL: NOT ESTABLISHED  
TLV: NOT ESTABLISHED

"\*" If present, IARL, NTP and OSHA carcinogens and chemical subject to this reporting requirements of SARA TITLE III, SECTION 313 are identified in this section.

=====  
SECTION III - PHYSICAL DATA

BOILING POINT FOR PRODUCT: N  
VAPOR PRESSURE FOR PRODUCT: NOT APPLICABLE  
VAPOR DENSITY FOR PRODUCT: (AIR=1)>1  
SPECIFIC GRAVITY: 1.0

MS-70 Industrial Strength Coin Brightener

PRODUCT ID NO.: 51610

PAGE: 2

\*\*\*\*\*

=====  
SECTION III - PHYSICAL DATA (CONTINUED)  
=====

V.O.C. (GRAMS PER LITER): 80 (CONCENTRATE)

WATER SOLUBILITY: 100 %

APPEARANCE: GREEN SOAP LIQUID

V.O.C. (LBS/GAL): 0.67

pH: > 13

=====  
SECTION IV - FIRE AND EXPLOSION DATA  
=====

FLASH POINT( ): NON FLAMMABLE

EXPLOSIVE LIMIT (PRODUCT): LOWER - N/A                      UPPER - N/A

SEC04.13

FIRE & EXPLOSION HAZARDS: Keep containers cool. Use equipment or shielding required to protect personnel against bursting, rupturing, venting containers.

FIRE FIGHTING EQUIPMENT: At elevated temperatures (above 120 F) containers may vent, rupture, or burst.

EXTINGUISHING MEDIA: Foam Dry Chemical, Carbon Dioxide.

=====  
SECTION V - HEALTH HAZARD DATA  
=====

SEC05.13

HEALTH HAZARDS: This material is a corrosive material

ROUTES OF EXPOSURE:

INHALATION: Airborne concentrations of dust, mists, or spray may cause damage to the upper-respiratory tract and even to the lung tissue proper which could produce chemical pneumonia, depending upon severity of exposure.

SKIN CONTACT: This product is destructive to tissues contacted and produces severe burns.

SKIN ABSORPTION: See skin contact.

EYE CONTACT: This product is destructive to eye tissues on contact. Will cause severe burns that result in damage to the eyes and even blindness.

INGESTION: This product, if swallowed, can cause severe burns and complete tissue perforation of mucous membranes of the mouth, throat esophagus and stomach.

EFFECTS OF OVEREXPOSURE:

ACCUTE: Corrosive to all body tissues which it comes in contact.

CHRONIC: The chronic local effect of the skin or of primary irritant.

DERMATITIS: Similarly, inhalation of dust, spray, or mist may result in varying degrees of irritation or damage to the respiratory tract

MS-70 Industrial Strength Coin Brightener

PRODUCT ID NO.: 51610

PAGE: 3

\*\*\*\*\*

=====  
SECTION V - HEALTH HAZARD DATA (CONTINUED) =====

tissues and an increased susceptibility to respiratory illness.

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, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

SKIN: Immediately wash contaminated areas with plenty of water. Remove contaminated clothing and footwear and wash clothing before reuse. Discard footwear which cannot be decontaminated. Seek medical attention immediately.

INHALATION: Get person out of contaminated area to fresh air. If breathing has stopped, resuscitate and administer oxygen if readily available. Seek 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.

=====  
SECTION VI - REACTIVITY DATA =====

SEC16.13

CONDITIONS CONTRIBUTING TO INSTABILITY: Under normal conditions, the material is stable.

INCOMPATIBILITY: This material may be added slowly to water or with dilution and agitation to avoid a violent reaction. Avoid contact with aluminum, tin, zinc, and alloys containing these metals. Do not mix with strong acids without dilution and agitation to prevent violent or explosive reaction. Avoid contact with leather or wood.

HAZARDOUS DECOMPOSITION PRODUCTS: None

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: Not known to polymerize

=====  
SECTION VII - SPILL OR LEAK PROCEDURES =====

SEC07.13

DEVELOP SPILL PLAN

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Clean up spills

MS-70 Industrial Strength Coin Brightener

PRODUCT ID NO.: 51610

PAGE: 4

\*\*\*\*\*

=====  
SECTION VII - SPILL OR LEAK PROCEDURES (CONTINUED) =====

immediately by sweeping or shoveling up the material. Liquid spills should be removed by using a vacuum truck. Solid spills should be scooped up and placed in approved containers for disposal. Neutralize remaining traces of material with any dilute inorganic acid such as hydrochloric, sulfuric, nitric, phosphoric, and acetic acid. The spill area should then be flushed with water followed by liberal covering of sodium bicarbonate. All clean-up material should be removed and placed in approved containers to await proper treatment or disposal. Spills on areas other than pavement, e.g., dirt or sand, may be handled by removing the affected soils and placing in approved containers. Persons performing clean-up work should wear adequate personal protective equipment and clothing.

WASTE DISPOSAL METHOD: The materials resulting from clean-up operations may be hazardous wastes and, therefore, subject to specific regulations. Package, store, transport, and dispose of all clean-up materials and any contaminated equipment in accordance with all applicable Federal, State, and local health environmental regulations. Shipments of waste materials are subject to manifesting requirements per applicable regulations. Appropriate disposal will depend on the nature of each waste material and should be performed by competent and properly permitted contractors. Ensure that all responsible Federal, State, and local agencies receive proper notification of spill and disposal methods.

=====  
SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED =====

SEC08.13

VENTILATION REQUIREMENT: Use adequate exhaust ventilation.

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: Respiration protection is not required under normal use.

EYE: Face shield and goggles or chemical goggles should be worn.

GLOVES: Gloves should be worn. May be decontaminated by washing with mild soap and water.

OTHER CLOTHING AND EQUIPMENT: Coveralls closed to the neck.

Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas in which handled.

Product is corrosive to tin, aluminum, zinc and alloys containing these metals, and will react violently with these metals in powder form.

SPECIAL MIXING AND HANDLING INSTRUCTIONS: When making solutions, be sure to follow these steps:

1. Always wear all protective clothing.
2. Never add water to product. Always add product to water.
3. Always empty and clean containers of all residues before adding product to avoid possible explosive reaction between product and unknown residues.

MATERIAL SAFETY  
DATA SHEET

Betterbilt Chemical  
3137 26th Street  
Los Angeles Ca 90023  
(323) 266-7111

24-HOUR  
EMERGENCY  
TELEPHONE  
(800) 535-5053

MS-70 Industrial Strength Coin Brightener

PRODUCT ID NO.: 51610

PAGE: 5

\*\*\*\*\*

===== SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED (CONTINUED) =====

===== SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS =====

SEC09.13

PRECAUTIONARY STATEMENTS

DANGER! CAUSES SEVERE BURNS TO SKIN AND EYES.  
DO NOT get in eyes, on skin, on clothing.  
Avoid breathing dust, mist, or spray.  
DO NOT take internally.  
Use with adequate ventilation and employ respiratory protection when exposed to dust, mist or spray. When handling wear chemical splash goggles, face shield, rubber gloves and protective clothing. Wash thoroughly after handling. Keep container closed. Hazardous carbon monoxide gas can form upon contact with food and beverage products in enclosed spaces and can cause death.

FIRST AID:

IN CASE OF CONTACT:

FOR EYES: Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire eye surface. Seek medical attention immediately.

FOR SKIN: Immediately wash with plenty of water. Remove contaminated clothing and footwear. Wash clothing before reuse and discard footwear which cannot be decontaminated. Seek medical attention immediately.

IF INHALED: Remove person out of contaminated area to fresh air. If breathing has stopped, artificial respiration should be started. Oxygen may be administered, if available. Seek medical attention immediately.

IF SWALLOWED: DO NOT induce vomiting. Give large quantities of water. If available, give several glasses of milk. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

IN CASE OF SPILL OR LEAK: Leaks should be stopped. Spills, after containment, should be shoveled up or removed by vacuum truck (if liquid) to chemical waste area. Neutralize residue with dilute acid, flush spill area with water followed by liberal covering of sodium bicarbonate. Dispose of wash water and spill by-products according to Federal, State, and local regulations.

STORAGE: Returnable container should be shipped in accordance with Federal, State, and DOT regulations. All residual material should be removed from containers prior to disposal.

===== ADDITIONAL COMMENTS =====

Consumer Product Safety Act Certification.

This product was evaluated by Four Star Chemical and is certified to be

MATERIAL SAFETY  
DATA SHEET

Betterbilt Chemical  
3137 26th Street  
Los Angeles Ca 90023  
(323) 266-7111

24-HOUR  
EMERGENCY  
TELEPHONE  
(800) 535-5053

MS-70 Industrial Strength Coin Brightener

PRODUCT ID NO.: 51610

PAGE: 6

\*\*\*\*\*

===== ADDITIONAL COMMENTS (CONTINUED) =====

in compliance with the provisions of the Consumer Product Safety Act,  
the Federal Hazardous Substances Act, and the Poison Prevention Packaging  
Act, as applicable. This product was manufactured at the  
location identified on the MSDS. The date of manufacture is stamped on  
the product container. No testing is required to certify compliance  
with the above mentioned regulation.

\*\*\*\*\*

The above information is based on the data of which we are aware and is  
believed to be correct as of the date hereof. Since the information  
contained herein may be applied under conditions beyond our control and  
with which we may be unfamiliar and since data made available subsequent  
to the date hereof may suggest modification of the information, we do not  
assume any responsibility for the results of its use. This information is  
furnished upon condition that the person receiving it shall make his own  
determination of the suitability of the material for his particular purpose.

□