

# MATERIAL SAFETY DATA SHEET

Prepared pursuant to 29 CFR §1910.1200(g)

## SECTION 1: PRODUCT INFORMATION

Product Name SOLID METALSTAR MACHINE DETERGENT (Product No. 144)  
Manufacturer Crown Chemical, Inc. Address 4701 W. 136th Street Crestwood, IL 60445  
Emergency Telephone Number (708) 371-6990 or (800) 535-5053 (24 hour)

## SECTION 2: HAZARDOUS INGREDIENTS

Chemical Name (Common Name)	CAS No.	%*	OSHA PEL	ACGIH TLV	SARA Title III Designation**
Sodium Hydroxide (Caustic Soda)	1310-73-2		2mg/m3 (ceiling)	Same	No

\*Optional

\*\*Subject to Reporting Requirements Under Section 313 of SARA Title III and 40 CFR Part 372. Upper Bound Percentage by Weight Provided.

Ingredients Listed as Carcinogens or Potential Carcinogens: None Listing Source: NTP IARC OSHA Animal Data

## SECTION 3: PHYSICAL CHARACTERISTICS

Boiling Point NA Specific Gravity (H2O=1) NA Vapor Density (Air = 1) NA Vapor Pressure NA  
pH (1% solution) >12.0 Solubility in Water 100% Evaporation Rate (H2O = 1) NA  
Appearance and Odor White solid with characteristic odor.

## SECTION 4: FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC) NA F Flammable Limits NA Extinguishing Media NA Special Firefighting Procedures NA  
Unusual Fire and Explosion Hazards None.

## SECTION 5: REACTIVITY HAZARD DATA

Stability 100%    Incompatibilities Acids, flammables, non-ferrous metals (e.g. aluminum, zinc and tin), painted surfaces.  
Hazardous Polymerization Will not occur Hazardous Decomposition By-Products None

## SECTION 6: HEALTH HAZARDS AND FIRST AID

Primary Exposure Routes: X Eye X Skin    Inhalation    Ingestion  
Acute Effects CORROSIVE. Contains Sodium Hydroxide. Causes irritation and/or burns to eyes and skin. Dusts or vapors may cause irritation and/or burns to nasal passages and respiratory tract. Harmful or fatal if swallowed.  
Chronic Effects Exposure may cause permanent damage to eyes.  
Medical Conditions Aggravated by Exposure None known.  
First Aid Procedures EYES: Flush immediately with copious amounts of water. Remove any contact lenses. Hold eyelid open and roll eyeball in all directions while flushing. Continue flushing for 15 minutes. Seek immediate medical attention. SKIN: Immediately flush affected area with large quantities of water. Continue flushing for 15 minutes. Seek medical attention if irritation persists. INGESTION: Rinse out mouth, then drink large quantities of water. Do not induce vomiting. Seek immediate medical attention. INHALATION: Remove person to fresh air. Seek medical attention. Never give anything by mouth to an unconscious person.

## SECTION 7: CONTROL AND PROTECTIVE MEASURES

Respiratory Protection Vapor mask where needed to prevent inhalation of dust or vapors. Protective Gloves Waterproof recommended.  
Eye Protection Chemical splash goggles recommended. Do not wear contact lenses while handling this product.  
Other Protective Clothing and Equipment None required.  
Hygienic Work Practices Avoid splashing. Never mix this product with other chemicals. Used with adequate ventilation.  
Ventilation Local exhaust to keep exposure below any PEL and TLV limits listed above.

## SECTION 8: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Followed if Spilled or Released Neutralize with water. Mop up, sweep up, or otherwise absorb. Hold for disposal.  
Waste Disposal Methods Promptly dispose of empty containers by any method which complies with applicable laws.  
Storage Requirements Keep out of reach of children. Store between 50-120 F.  
Other Precautions or Special Hazards Wash contaminated clothing and shoes before reuse.

The information and recommendations contained herein are believed to be reliable, but are given without warranty or guarantee of any kind, express or implied. The hazards provided in this Material Safety Data Sheet apply to this product in its concentrated form, and may differ significantly after dilution.

Date Prepared: January 1, 2011

NIPCA Hazardous Material  
Identification System

HEALTH.....3  
FLAMMABILITY.....0  
REACTIVITY.....1  
PROTECTIVE EQUIPMENT.....B (See Section 7)

0 = Least  
1 = Slight  
2 = Moderate  
3 = High  
4 = Severe  
NA = Not Applicable  
NE = Not Established