

MATERIAL SAFETY DATA SHEET

page 1 of 2

Product Name: LOYAL® DW ALUMINUM CLEANER
Chemical or Common Name: HARD SURFACE CLEANER
Prepared By: JEFF ADLER

Product Code: 4052
Date Issued: 6/5/06
Supercedes: 12/05/03

1. Hazardous Information

Chemical Name	Cas Numbers	Weight %	Exposure Information
Sodium Metasilicate	6834-92-0	8-63	None

These materials marked with an * are subject to the reporting requirements under the Super fund Amendments and Reauthorization Act of 1986 (SARA) Title III, Section 313 and CFR Part 372

2. Physical Data

Solubility in Water: Complete	Specific Gravity (Water=1): ND	Melting or Freezing Point: ND
Boiling Point: ND	Vapor Density (air=1): ND	Viscosity: ND
Percent Volatile (By Wt): ND	pH: 1% 12.5± .5	Appearance-Odor: White powder bland odor
Vapor Pressure (MM HG): ND	Evaporation Rate (BU AC=1): ND	

3. Fire and Explosion Data

Flash Point: ND Auto ignition Temp: ND Lower Explosion Limit: ND Upper Explosion Limit: ND

Extinguishing Media Foam X CO2 X Dry Chemical X water Fog X Other

Special Fire Fighting Procedures: Normal fire fighting procedures may be used. Cool and use caution when approaching or handling fire exposed containers.

Unusual Fire & Explosion Hazards: None Noted

4. Health Data

Recommended Health Guide TWA (Maximum Time Weighted Average Concentration For An 8 Hour Work Period). **ND**

Effects of Overexposure: **SKIN:** Possible skin rash and burning of the skin. **EYE:** Severe burning of the eye.

Prolonged or repeated contact of product with skin may cause irritation. Product spray or mist may burn mouth, nose, throat and lungs. Respiratory protection should be used.

Emergency and First Aid Procedures Inhalation: If difficulty or discomfort in breathing is experienced, remove to fresh air and get medical attention. **Eye & Skin Contact:** Flush eyes with water for at least 15 minutes. Occasionally raise upper and lower lids. Consult a physician. Wash skin thoroughly for 15 minutes. Remove affected clothing. Do not reuse until professionally laundered. Consult a physician. **Ingestion:** Do not induce vomiting. Drink large quantities of water or milk. Call a physician immediately.

5. Reactivity Data

Stability: STABLE

Conditions To Avoid: NONE NOTED

Hazardous Decomposition Products: when exposed to fire , produces normal products of combustion.

Hazardous Polymerization: WILL NOT OCCUR

Conditions To Avoid: NONE NOTED

Incompatibility (Materials To Avoid): MOISTURE

6. Spill or Leak Procedure

Steps to be taken if material is released or spilled: Sweep up and Containerize. Rinse affected area with water.

Waste Disposal Information: For undiluted material disposal is regulated under the Resource Conservation and Recovery act as corrosive waste. Disposal for regulated quantities by neutralization at a permitted facility in accordance with all Federal, State and Local regulations. Keep undiluted material out of the sewer system and water system.

7. Special Protection Information

Respiratory Protection (Specify Type): Use of respiratory protection is highly recommended. Mist/vapors/dust are not adequately controlled by local ventilation, use appropriate respiratory protection to prevent overexposure.

Ventilation: Normal room ventilation should be adequate.

Protective Gloves: Rubber or PVC

Eye Protection: Splash proof goggles where eye contact may occur.

Other Protective Information: Rubber or pvc apron.

8. Special Precautions

Precautionary Labeling: Keep out of the reach of children. Avoid eye contact. Wash hands after using material.

Other Handling And Storage Conditions: Store in a cool dry area.

9. Additional Information

Containers, even those that have been emptied, will retain product residue and vapors. Always obey hazard warnings and handle empty containers as if they are full.

10. Health Hazard Rating

0-Insignificant	1-Slight	2-Moderate	3-High	4-Extreme
Health 2	Fire 0	Reactivity 1	Special 0	

NA- Not Applicable **ND-** Not Determined

All information, recommendations and suggestions appearing herein concerning this product are based upon data obtained from manufacturer and or recognized technical sources; however, Royal Solutions, Inc. makes no warranty, representation or guaranty as to the accuracy, sufficiency or completeness of the material set forth herein.

DOT Description: CORROSIVE SOLID BASIC, INORGANIC, N.O.S., (DISODIUM TRIOXOSILICATE) 8,UN3262, II