



Material Safety Data Sheet

1.0 Chemical Product and Company Identification:

1.1	Product Name:	MCS 232D WORKHORSE
1.2	Product Type:	Solid Dishmachine Detergent
1.3	Company	Noramtech Corporation 19 Elmwood Avenue Kansas City, Kansas 66103
1.4	Phone	1-800-643-9070; 1-913-713-4120; Fax 1-913-713-4127
1.5	Emergency	Chemtrec 1-800-424-9300

2.0 Hazardous Components

PRINCIPAL HAZARDOUS COMPOUNDS	CAS #	Wt%	THRESHOLD LIMIT VALUE (UNITS)
Sodium Hydroxide	1310-73-2	25 - 30	Corrosive

**SECTION 313:
STATE RIGHT-TO-KNOW REGULATIONS:
CALIFORNIA PROPOSITION 65:**

3.0 Physical Data

3.1	Appearance:	Off White Cast Solid
3.2	Solubility in water:	Complete
3.3	PH 0.5% Solution	12+
3.4	Boiling Point	NA
3.5	Flash Point	Does Not Burn
3.6	Vapor Pressure	NA
3.7	Specific Gravity/Density	1.4

4.0 Fire and Explosion Data

4.1	Special Fire Hazards:	Flammable hydrogen gas will be liberated if solution of product comes in contact with soft metals such as aluminum.
4.2	Fire Fighting Methods:	Wet product is slippery. Avoid physical contact. Highly caustic.

5.0 Reactivity Data

5.1	Stability:	Yes
5.2	Conditions to Avoid:	Prolong contact with Al, Cu, Sn, Pb, Zn, will release flammable hydrogen gas. Incompatible with ammonia and other cleaning products.

6.0 Spill or Leak Procedures

6.1	Cleanup and Disposal:	Handle with rubber gloves. Soak up with dry absorbent and place in container for waste disposal. Dispose of in accordance with local, state and federal regulations. Triple rinse containers.
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7.0 Health Hazard Data

7.1	Effects of overexposure:	Eyes: Corrosive to eyes. Causes burns. Skin: Corrosive to skin. Causes burns. Ingestion: Corrosive to mouth and throat. Ingestion can cause severe and rapid burning of mouth, throat and digestive tract. Mucous membrane irritant. Inhalation:
	Chronic Exposure:	

8.0 First Aid

8.1	Eyes:	Flush with cold running water for at least 15 minutes and see physician immediately.
8.2	Skin:	Wash thoroughly with soap and water for at least 15 minutes. See physician if irritation persists.
8.3	Ingestion:	DO NOT induce vomiting. Give a large amount of water and transport to an emergency center for attention.
8.4	Inhalation:	Remove person to fresh air. Do not give any liquids by mouth to an unconscious person.

9.0 Protective Measures

9.1	Eyes Protection:	Safety glasses or goggles. DO NOT use contact lenses. Eye wash facility required.
9.2	Skin Protection:	Rubber gloves.
9.3	Respiratory Protection:	None required.
9.4	Ventilation Protection:	

10.0 Special Precautions

10.1	Handling and Storage Precautions:	Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Launder contaminated clothing before reuse. Keep containers closed when not in use and away from high humidity
10.2	Transport Information	DOT Class: Corrosive Solid, basic, inorganic, n.o.s., 8, UN3262, PG II, (Contains sodium hydroxide) DOT Proper Shipping Name: Refer to bill of lading or container label for DOT or other transportation hazard classification if any.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.

Noramtech Corporation - 19 Elmwood Avenue - Kansas City, Kansas 66103

SIGNATURE: *Patrick T. Dierker*

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