



## 1.0 Chemical Product and Company Identification:

1.1	Product Name:	<b>Titan MCS 245</b>
1.2	Product Type:	<b>Machine Dishwash Detergent</b>
1.3	Company	<b>Noramtech Corporation 19 Elmwood Avenue Kansas City, Kansas 66103</b>
1.4	Phone	<b>1-800-643-9070; 1-913-713-4120; Fax 1-913-713-4127</b>
1.5	Emergency	<b>Chemtrec 1-800-424-9300</b>

## 2.0 Hazardous Components

PRINCIPAL HAZARDOUS COMPOUNDS	CAS #	Wt %	THRESHOLD LIMIT VALUE (UNITS)
Sodium Hydroxide	1310-73-2	20-30	Corrosive

**SECTION 313:** This product is not known to contain any compound listed and in quantities requiring reporting under SARA Title III Section 313.

**CALIFORNIA PROPOSITION 65:** This product is not known to contain any material listed under California's Proposition 65.

## 3.0 Physical Data

3.1	Appearance:	Off-white cast solid, no odor
3.2	Solubility in water:	Complete
3.3	PH 0.5% Solution	12+
3.4	Boiling Point	NA
3.5	Flash Point	NA
3.6	Vapor Pressure	NA
3.7	Specific Gravity/Density	1.45

## 4.0 Fire and Explosion Data

4.1	Special Fire Hazards:	Not combustible; use extinguishing media appropriate for specific fire.
4.2	Fire Fighting Methods:	Wet product is slippery. Avoid physical contact. Highly caustic
4.3	Unusual Fire and Explosion Hazards:	Flammable hydrogen gas will be liberated if solution or product comes in contact with metals such as aluminum.

## 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. Avoid strong acids
5.3	Hazardous Decomposition Products:	None known

## 6.0 Spill or Leak Procedures

6.1	Cleanup and Disposal:	Dispose of in accordance with local, state and federal regulations.
6.2	Steps to be taken if released or spilled:	Spillage is unlikely due to type of product. If so, sweep up and discard in containers for solid disposal. Handle only with rubber gloves

## 7.0 Health Hazard Data

7.1	Effects of overexposure:	Eyes: X Skin: X Ingestion: Inhalation: Chronic Exposure:
7.2	Signs and Symptoms of Exposure:	Severe eye and skin irritant. Corrosive to mouth and throat. Ingestion can cause severe and rapid burning of mouth, throat and digestive tract.

## 8.0 First Aid

8.1	Eyes:	Flush with running cool water for 10-15 minutes and see physician immediately.
8.2	Skin:	Wash thoroughly with soap and water. 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:	Not a problem.

## 9.0 Protective Measures

9.1	Eyes Protection:	Safety glasses or goggles. Eye wash facility recommended.
9.2	Skin Protection:	Chemical resistant gloves for prolonged exposure.
9.3	Respiratory Protection:	NA
9.4	Ventilation Protection:	NA

## 10.0 Special Precautions

10.1	Handling and Storage Precautions:	Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Remove and launder contaminated clothing before reuse. Avoid breathing dust. Keep partially used containers closed and away from heat and high humidity. Do not exceed storage temperatures of 100° F.
10.2	Transport Information	DOT Class: Corrosive solid, basic, Inorganic, n.o.s., 8, UN3262, PGII 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.

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PREPARED BY: Patrick T. Dierker

Dated: November 30, 2007