



# JANITORIAL PRODUCTS

## *Product Label & Usage Information*

Michigan State Industries

- Janitorial Products Factory •  
Product Label & Usage Directions



**MICHIGAN STATE INDUSTRIES**  
*Building Bridges to Success*

# 8757

# POT & PAN DISH WASH

MANUAL

Dishes · Glassware · Utensils  
Silverware · Pots & Pans

NET CONTENTS: Five Gallons (640 fl. oz.)

## PRODUCT DESCRIPTION:

This product is a top quality, highly concentrated hand dishwash liquid. Excellent grease dissolving power. Provides long lasting, stable suds. This product is free rinsing and will never leave streaks or spots. Contains emollients to protect and condition the hands.

## DIRECTIONS FOR USE:

Use ½ - 1 ounce of this product for each gallon of water.

Add water to detergent in tank to make suds.

Sanitize according to local health department regulations.



#8757

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17600 Ryan Rd  
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313-368-3200 EXT 2821646

## CAUTION

### Hazard statements:

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Do not handle until all safety precautions have been read and understood.

### Precautionary Statements

#### Prevention:

Avoid contact with eyes. Do not ingest. Keep out of reach of children.

#### Response:

**IF IN EYES:** Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.

**IF ON SKIN:** Rinse skin with water if irritation occurs.

**IF SWALLOWED:** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in an approved waste disposal plant.

#### NFPA RATING:

Health: 0 Flammability: 0 Instability: 0 Special Hazards: N/A



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# 8758

# AUTOMATIC DISH DETERGENT

**Concentrated Machine Warewashing Liquid  
FOR COMMERCIAL USE ONLY**

NET CONTENTS: Five Gallons (640 fl. oz.)

## PRODUCT DESCRIPTION:

This is a powerful caustic detergent designed for use in low-temp machines. Food soils are washed away quickly with one pass cleaning. This product may be used on soft metals and aluminium.

## DIRECTIONS FOR USE:

FOR USE WITH AUTOMATIC DISPENSING EQUIPMENT ONLY.

See your service representative for reliable, accurate dosing.



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## DANGER

### Hazard statements:

CORROSIVE. Harmful if swallowed. Causes severe skin burns and eye damage. May be corrosive to metals.

### Precautionary Statements:

**Prevention:** Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Wear personal protective equipment as required. Wash thoroughly after handling. Use in well-ventilated areas.

**Response:** If exposed or concerned, call a POISON CENTER or doctor.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Storage:** Store locked up and in original container.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

NFPA RATING:

Health: 2 Flammability: 0 Instability: 1 Special Hazards: N/A





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#8760

# ALL TEMPERATURE RINSE

FOR COMMERCIAL DISH MACHINE USE ONLY

Quick Drying · Streak Free

NET CONTENTS: Five Gallons (640 fl. oz.)

Refer to product MSDS for complete safety information.

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderte 1 - Slight
0	REACTIVITY	0 - None

## WARNING

### Hazard statements:

Harmful if swallowed or inhaled.

### Precautionary Statements:

**Prevention:** Do not taste or swallow. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product. Do not breathe vapors or spray.

**Response:** If exposed or concerned, call a POISON CENTER or doctor.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice.

**Storage:** Store locked up in original container in a cool, dry place.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

## PRODUCT DESCRIPTION:

All Temperature Rinse is a super concentrated sheeting agent designed to speed drying time and leave glasses, dishes, utensils, and plasticware spot and streak free. Great for use in hard water areas. Controls foam and leaves surfaces sparkling clean without towel drying. Saves time and labor. Safe on plastic surfaces. Biodegradable.

## DIRECTIONS FOR USE:

FOR USE WITH AUTOMATIC DISPENSING EQUIPMENT ONLY.

See your service representative for reliable, accurate dosing tailored to your specific needs.



## JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

[www.michigan.gov/msi](http://www.michigan.gov/msi)

313.368.3200 x2821646





**MICHIGAN STATE INDUSTRIES**  
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**#8761**

# DELIMER

Lime · Scale · Mineral Deposits · Rust  
Hard Water Stains · Baked on Deposits  
Ice Machines · Dishwashing Machines · Coffee Makers

NET CONTENTS: One Gallon (128 fl. oz.)

Refer to product MSDS for complete safety information.

NFPA RATING		HAZARDS
2	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Modert 1 - Slight
0	REACTIVITY	0 - None

## DANGER

### Hazard statements:

CORROSIVE. Harmful if swallowed. Causes severe skin burns and eye damage. May be corrosive to metals.

### Precautionary Statements:

**Prevention:** Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Wear personal protective equipment as required. Wash thoroughly after handling. Use in well-ventilated areas.

**Response:** If exposed or concerned, call a POISON CENTER or doctor.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Storage:** KEEP OUT OF REACH OF CHILDREN. Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in a tightly closed container in a secure area inaccessible to children. Store away from oxidizing agents, alkalis, metal, and heat.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

## PRODUCT DESCRIPTION:

Delimer is an excellent lime and scale remover. This product removes iron, rust oxidation, hard water stains and soap scum. Delimer was designed to neutralize and remove lime and baked on deposits from steam tables, dishwashers and other equipment that has been exposed to extreme temperatures.

## DIRECTIONS FOR USE:

Use 1 oz. to 1 gallon of hot water. Allow tough deposits to soak for a few minutes. Scrub and rinse well.

**Prevent Build-up:** Dilute 1 oz. to 3 gallons of water after initial deliming.  
**Deliming Dish Machines:** Use 2 oz. of Delimer to each gallon of water in wash or rinse tank of machine. Run for 15 minutes. Drain. Follow with dishwashing detergent.

**Ice Machine Cleaning:** Dilute 1-2 oz. per gallon of water and follow machine cleaning instructions.



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**MICHIGAN STATE INDUSTRIES**  
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**# 8791**

# POWER CAPSULE

## WAREWASHING DETERGENT

### FOR COMMERCIAL USE ONLY

NET CONTENTS: 9 lbs.

**PRODUCT DESCRIPTION:**

Specifically designed for use in injector type dish machines. Cleans grease and hardened soils easily. Biodegradable.

**DIRECTIONS FOR USE:**

FOR INJECTOR FED DISH MACHINES ONLY.

See your service representative for reliable, accurate dosing tailored to your specific needs.

Remove pull tab on capsule and invert carefully into dispenser. When capsule is empty, lift carefully from dispenser. Discard used capsule immediately. Do not reuse. If skin comes in contact with detergent, wash immediately with cool running water and refer to first aid panel.



**#8791**

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**DANGER**

**Hazard statements:**

CORROSIVE. Harmful if swallowed. Causes severe skin burns and eye damage. May be corrosive to metals.

**Precautionary Statements:**

**Prevention:** Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Wear personal protective equipment as required. Wash thoroughly after handling. Use in well-ventilated areas.

Response: If exposed or concerned, call a POISON CENTER or doctor.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Storage:** KEEP OUT OF REACH OF CHILDREN. Store in a dry place no lower in temperature than 50° F or higher than 120° F. Store in a tightly closed container in a secure area inaccessible to children. Store away from oxidizing agents, alkalis, metal, and heat.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

**NFPA RATING:**

Health: 2 Flammability: 0 Instability: 1 Special Hazards: N/A





**MICHIGAN STATE INDUSTRIES**  
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**# 8794**

# POWER CAPSULE

**NON-PHOSPHATE  
WAREWASHING DETERGENT  
FOR COMMERCIAL USE ONLY**

NET CONTENTS: One Gallon (128 fl. oz.)

**PRODUCT DESCRIPTION:**

This product is 100% active. It contains a stable source of chlorine, water conditioner and maximum strength alkaline detergent. Specifically designed for use in injector type dish machines. Cleans grease and hardened soils easily. Biodegradable.

**DIRECTIONS FOR USE:**

FOR INJECTOR FED DISH MACHINES ONLY.

See your service representative for reliable, accurate dosing tailored to your specific needs.

Remove pull tab on capsule and invert carefully into dispenser. When capsule is empty, lift carefully from dispenser. Discard used capsule immediately. Do not reuse. If skin comes in contact with detergent, wash immediately with cool running water and refer to first aid panel.



**#8794**

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**DANGER**

**Hazard statements:**

CORROSIVE. Harmful if swallowed. Causes severe skin burns and eye damage. May be corrosive to metals.

**Precautionary Statements:**

**Prevention:** Do not breathe vapor or mist. Do not ingest. Do not eat, drink or smoke when using this product. Wear personal protective equipment as required. Wash thoroughly after handling. Use in well-ventilated areas.

Response: If exposed or concerned, call a POISON CENTER or doctor.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Storage:** KEEP OUT OF REACH OF CHILDREN. Store in a dry place no lower in temperature than 50° F or higher than 120° F. Store in a tightly closed container in a secure area inaccessible to children. Store away from oxidizing agents, alkalis, metal, and heat.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

NFPA RATING:

Health: 2 Flammability: 0 Instability: 1 Special Hazards: N/A





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# FREEZER CLEANER

**FOR COMMERCIAL USE ONLY**

NET CONTENTS: One Gallon (128 fl. oz.)

Freezer Cleaner is an aggressive, ready to use, floor, wall and equipment cleaner to use in sub-freezing, freezer and cold storage areas. This product removes dirt, grime, fat and grease deposits from hard surfaces. This product is safe to use and biodegradable.

## DIRECTIONS

Apply cleaner by spray, mop or sponge and agitate problem areas using a brush. Pick up solution with a wet-vac or mop. This product may also be used with automatic floor scrubbers and rotary floor machines.

Do not allow product or solution to contaminate food.



**#8813**  
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## WARNING

### Hazard statements:

Harmful if swallowed. Causes skin irritation. Causes eye irritation.

### Precautionary Statements

**Prevention:** Wear protective gloves/eye protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Wash face, hands and any exposed skin thoroughly after handling Do not breathe vapors/spray.

### Response:

Immediately call a POISON CENTER or doctor.

**IF IN EYES:** Flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**IF SWALLOWED:** Call a POISON CENTER or doctor. Drink a large quantity of water if able. Do NOT induce vomiting. If possible, do not leave individual unattended.

**IN CASE OF FIRE:** Use alcohol foam, carbon dioxide, dry chemical, or water spray for extinction.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in an approved waste disposal plant.





**MICHIGAN STATE INDUSTRIES**  
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# 8814

CONCENTRATED  
**CITRUS H<sub>2</sub>O<sub>2</sub>**

**Multi-Purpose Cleaner & Deodorizer**

**FOR COMMERCIAL USE ONLY**

NET CONTENTS: Five Gallons (640 fl. oz.)

**PRODUCT DESCRIPTION:**

Citrus H<sub>2</sub>O<sub>2</sub> is a multi-purpose cleaner and deodorizer with the power of citrus and hydrogen peroxide. This product can handle all of your tough cleaning jobs! It is safe to use, is readily biodegradable and environmentally preferable.

**DIRECTIONS FOR USE:**

**Light Duty:** Dilute 1 - 2 oz. per gallon of water.

**Medium Duty:** Dilute 4 oz. per gallon of water.

**Heavy Duty:** Dilute 6-10 oz. per gallon.

**Industrial Strength Degreasing:** 16 - 20 oz. per gallon.

DO NOT MIX THIS PRODUCT WITH ANY OTHER CHEMICAL



#8814

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**CAUTION**

**Hazard statements:**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Do not handle until all safety precautions have been read and understood.

**Precautionary Statements**

**Prevention:**

Do not breathe mist or spray. Avoid contact with eyes. Do not ingest. Keep out of reach of children.

**Response:**

**IF IN EYES:** Rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician if irritation persists.

**IF ON SKIN:** Rinse skin with water if irritation occurs.

**IF SWALLOWED:** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in an approved waste disposal plant.

NFPA RATING:

Health: 2 Flammability: 0 Instability: 0 Special Hazards: N/A

# # 8815



**MICHIGAN STATE INDUSTRIES**  
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# DEGREASER ALL PURPOSE CLEANER

FOR COMMERCIAL USE ONLY

NET CONTENTS: Five Gallon (640 fl. oz.)

## PRODUCT DESCRIPTION:

This product was created to handle the toughest cleaning jobs. It can be applied using a power washer, autoscrubber, steam cleaner, mop and bucket or as a spray and wipe cleaner. Safe on most washable surfaces. Biodegradable.

\*Do not use this product on glass.

## DIRECTIONS FOR USE:

**Light Duty:** Dilute 2 - 3 oz. per gallon of water.

**General Cleaning:** 4 - 6 oz. per gallon of water.

**Heavy Duty/Degreasing:** 8 - 12 oz. per gallon of water.

**Dispensing Equipment:** See your representative for accurate dosing.



# #8815

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## DANGER

### Hazard statements:

Causes severe skin burns and eye damage.  
Harmful if swallowed. May be harmful if inhaled.  
Inhalation of vapors or mist may cause respiratory irritation.  
Harmful if absorbed through skin.

### Precautionary Statements:

**Prevention:** Do not handle until all safety precautions have been read and understood. Wear personal protection equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe vapors or spray. Use only in well ventilated areas. Do not ingest.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Storage:** Store locked up and in original container.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

NFPA RATING:

Health: 2 Flammability: 0 Instability: 0 Special Hazards: N/A







**MICHIGAN STATE INDUSTRIES**  
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# QUARRY TILE CLEANER

**FOR COMMERCIAL USE ONLY**

NET CONTENTS: Five Gallons (640 fl. oz.)

# 8816

## PRODUCT DESCRIPTION:

A highly concentrated cleaner/degreaser for quarry tile and concrete floors. Eliminates grease build-up that can cause slippery floors. This specifically blended acid cleaner is a must in kitchens. The acid penetrates the tile and returns the porous condition and natural slip-resistance to the quarry tile.

Uses: Kitchens, Quarry Tile, Concrete, Restrooms and Showers.

## DIRECTIONS FOR USE:

Sweep floor of all dirt and debris.

**Daily cleaning:** Use 4 oz. per gallon of hot water. Apply with a mop or conventional sprayer. Agitate with deck brush for 5 minutes. Rinse with clean water and allow floor to dry.

**Initial "shock" cleaning:** Use at full strength or mixed with 64 oz. per gallon of hot water. Allow solution to remain for 5-10 minutes. Agitate with scrubber or brush, pick up with mop or wet/dry vacuum. Rinse as required.



# 8816

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## DANGER

### Hazard statements:

Harmful if inhaled. May cause severe skin irritation and eye damage.

### Precautionary Statements:

**Prevention:** Use only outdoors or in a well-ventilated area. Do not breathe vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not taste or swallow.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Wash contaminated clothing prior to reuse. Call a poison control center or doctor for treatment advice.

**IF INHALED:** Move person to fresh air. If not breathing, call 911 or an ambulance then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**IF SWALLOWED:** Call a POISON CENTER or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Storage:** Store locked up and in original container.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.

NFPA RATING:

Health: 2 Flammability: 0 Instability: 0 Special Hazards: N/A







#8818

MICHIGAN STATE INDUSTRIES  
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# READY TO USE SCUM BUSTER

## Mold & Mildew Stain Remover

Bathrooms · Locker Rooms · Showers  
Tile & Grout and more!

NET CONTENTS: 1 Quart (32 fl. oz.)

Scum Buster is a fast acting formula that cuts through soap scum and stains caused by mold and mildew. You will be amazed at the results. Brightens as it cleans all surfaces. Easily removes heavy build-up with just a water rinse.

### Remove Soap Scum, Mold & Mildew Stains and Other Heavy Build Up From:

Bathrooms · Shower & Locker Rooms · Bath Tubs  
Pool Decks · Outdoor Furniture · Roofs  
Fences · Brick Pavers · Vinyl Siding · Boats  
Garage Doors · Retaining Walls · Fiberglass  
Humidifiers · Concrete · Tile · Metal

### DIRECTIONS FOR USE:

Saturate the surface with Scum Buster. For heavy stains, allow product to remain for a few minutes. Agitate hard-to-reach areas with a brush or sponge. Rinse the area with water.

Spray shower stalls daily to prevent build up and malodors.

### NFPA RATING:

Health: 1 Flammability: 0 Instability: 1 Special Hazards: N/A

## WARNING

### Hazard Statements:

Harmful if swallowed. May cause severe eye irritation.  
May cause skin irritation.

### Precautionary Statements:

#### PREVENTION:

Use personal protective equipment as required.  
Wash face, hands and any exposed skin thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Do not breathe vapors or spray.

#### RESPONSE:

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**IF ON SKIN (or hair):** Remove immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Consult a physician if irritation occurs.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if irritation persists.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Immediately call poison control center or physician for treatment advice.

**Storage:** Keep container tightly closed when not in use. Store in a cool, well ventilated place. KEEP OUT OF REACH OF CHILDREN.

**Disposal:** Dispose of contents/container to an approved waste disposal plant.



#8818

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# SANI HANDS

## ANTI-BACTERIAL HAND SOAP

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.

### DANGER

Causes skin and eye irritation.

### PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

### PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

### DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



### JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

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Detroit, MI 48212

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# MULTI-PURPOSE CLEANER CONCENTRATE

## HARD SURFACE CLEANER

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.

### DANGER

Causes skin and eye irritation.  
Toxic to aquatic life with long lasting effects.

### PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/  
face protection.

### PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/physician if you feel unwell.  
**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.  
**IF INHALED:** Remove victim to fresh air, rest in a position  
comfortable for breathing.  
**IF IN EYES:** Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing as needed.  
Wash contaminated clothing before reuse.

### DISPOSAL

Dispose of contents/container in accordance with  
local / regional / national / international regulations.



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### JANITORIAL PRODUCTS

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# DISINFECTANT SANITIZER DEODORIZER

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.

## DANGER

Toxic if swallowed.  
Harmful in contact with skin.  
Causes severe skin burns and eye damage.  
Very toxic to aquatic life.



8759

## PRECAUTIONARY STATEMENTS

Do not breathe dust / fume / gas / mist / vapors / spray.  
Wash exposed skin thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves / protective clothing / eye protection / face protection.

## PRECAUTIONARY RESPONSE

**Immediately** call a POISON CENTER or doctor/ physician.  
**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.  
**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.  
**IF IN EYES:** Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do.  
Continue rinsing as needed.  
Wash contaminated clothing before reuse.

## STORAGE

Store locked up.

## DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



## JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

313.368.3200 x1112821646

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

This product is designed for use in hospitals, food service establishments, restaurants, where disinfection, sanitization and deodorization is of prime importance. When used as directed, this product is formulated to disinfect hard, non-porous, inanimate environmental surfaces: floors, walls, glazed porcelain, glazed ceramic tile, plastic surfaces, bathrooms, shower stalls, bathtubs, cabinets, tables, chairs and telephones. This product is not for use on critical and semi-critical medical device surfaces.

## DIRECTIONS FOR USE

**DISINFECTION** – To disinfect inanimate, hard non-porous surfaces apply use-solution with mop, cloth, sponge, low pressure coarse sprayer or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use. For low pressure coarse sprayer and hand pump trigger sprayer applications, spray 6-8 inches from surface; rub with brush, sponge or cloth. Do not breathe spray.

NOTE: For spray applications, cover or remove all food products. After use, all surface must be thoroughly rinsed with potable water.

**GENERAL DISINFECTION** - Add 3 ounces of this product per 5 gallons of water for disinfection against *Staphylococcus aureus*, *Salmonella enterica*, *Listeria monocytogenes*, and *Yersinia enterocolitica*.

**HOSPITAL DISINFECTION** – Add 3.5 ounces of this product per 5 gallons of water for disinfection against *Pseudomonas aeruginosa* and *Vancomycin intermediate resistant Staphylococcus aureus*, as well as the organisms listed under the GENERAL DISINFECTION section.

**To disinfect food processing premises:** floors, walls, and storage areas, add 3 ounces of this product per 5 gallons of water (or equivalent dilution). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess liquid. Before using this product, food products and packaging materials must be removed from the area or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

**To disinfect food service establishment or restaurant food contact surfaces:** counter tops, outside of appliances, tables, add 3 ounces of this product per 5 gallons of water (or equivalent dilution). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. Allow the surface to remain wet for 10 minutes, then remove excess liquid and rinse the surface with potable water. Do not use on utensils, dishes, glasses or cookware.

**\*VIRUCIDALACTIVITY** – This product, when used on environmental, inanimate, hard non-porous surfaces at 3.5 ounces per 5 gallons of water exhibits effective virucidal activity against Influenza A2/Japan, Herpes Simplex Type 1, Adenovirus Type 5, Vaccinia Virus, Avian Influenza A/Turkey/Wisconsin, HIV-1, Newcastle Disease Virus, Laryngotracheitis Virus, Hepatitis B Virus, Hepatitis C Virus, Bovine Viral Diarrhea Virus, Human Coronavirus (Strain 229E), Porcine Respiratory & Reproductive Syndrome Virus (Strain NVSL) and SARS associated Coronavirus.

### KILLS HIV-1, HBV and HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/OBJECTS

**PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids, and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1, Hepatitis B virus and Hepatitis C virus.

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1, HBV and HCV OF SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.**

**PERSONAL PROTECTION:** When handling items soiled with blood or body fluids use disposable latex gloves, gowns, masks, and eye coverings.

**CLEANING PROCEDURES:** Blood and other body fluids must be thoroughly cleaned from surfaces and object before application of this product.

**CONTACT TIME:** Allow surface to remain wet for 10 minutes.

**DISPOSAL OF INFECTIOUS MATERIALS:** Blood and other body fluids must be autoclaved and disposed of according to local regulations for infectious waste disposal.

**EFFICACY TESTS HAVE DEMONSTRATED THAT THIS PRODUCT IS AN EFFECTIVE BACTERICIDE AND VIRUCIDE IN THE PRESENCE OF ORGANIC SOIL (5% BLOOD SERUM).**

**PRECAUTIONARY STATEMENTS:** HAZARDS TO HUMANS AND DOMESTIC ANIMALS - DANGER. KEEP OUT OF REACH OF CHILDREN. CORROSIVE. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves, and protective clothing. Harmful if swallowed. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

## -FOOD CONTACT SURFACE SANITIZATION DIRECTIONS -

**Sanitization:** Recommended for use in restaurants. When used as directed this product is an effective sanitizer at an active quaternary concentration of 200-400 ppm when diluted in water up to 650 ppm hardness (CaCO3) in public eating establishments against *Escherichia coli*, *Escherichia coli* O157:H7, *Staphylococcus aureus*, *Yersinia enterocolitica*, *Listeria monocytogenes*, *Salmonella typhi*, *Shigella sonnei*, *Vibrio cholera*, Methicillin resistant *Staphylococcus aureus*, Vancomycin resistant *Enterococcus faecalis*, and *Campylobacter jejuni*. Remove all gross food particles and soil from areas, which are to be sanitized, with a good detergent, pre-flush, pre-soak or pre-scrape treatment. Rinse with potable water rinse. Prepare a fresh solution daily or more frequently as soil is apparent.

**Sanitization of public eating establishment food contact surfaces is regulated under 40CFR180.940. To sanitize pre-cleaned and potable water-rinsed, non-porous public eating establishment food contact surfaces:** prepare a 200-400 ppm active quaternary solution by adding 1-2 ounces of this product to 4 gallons of water, 2.5-5 ounces to 10 gallons of water or 5-10 ounces to 20 gallons of water (or equivalent dilution).

**To sanitize pre-cleaned mobile items in public eating establishments** (drinking glasses, dishes, eating utensils) immerse in a 200-400 ppm active quaternary solution for at least 60 seconds making sure to immerse completely. Remove items, drain the use-solution from the surface and air dry. Do not rinse.

**To sanitize pre-cleaned public eating establishment surfaces** (counters, tables, finished wood or plastic cutting boards), apply a 200-400 ppm active quaternary solution with a (cloth, sponge, low pressure coarse sprayer or hand pump trigger sprayer) making sure that the surface remains completely wet for at least 60 seconds and let air dry. Do not rinse.

**To sanitize pre-cleaned immobile food processing equipment and surfaces** (tanks, finished wood or plastic chopping blocks, counter tops, conveyors) flood the area with a 200 to 400 ppm active quaternary solution for at least 60 seconds, making sure to wet all surfaces completely. Drain the use-solution from the surface and air dry.

**To sanitize pre-cleaned mobile food processing utensils** (knives, grinders, shredders, cleavers, ladles), immerse in a 200 to 400 ppm active quaternary solution for at least 60 seconds, making sure to immerse completely. Remove, drain the use-solution from the sure and air dry.

**Sanitization of food processing equipment, utensils, and other food contact articles regulated under**

**40CFR180.940.** 1. Scrape, flush, or pre-soak articles (whether mobile or stationary) to remove gross food particles and soil. 2. Thoroughly wash articles with a compatible detergent or cleaner. 3. Rinse articles thoroughly with potable water. 4. Sanitize by immersing articles with a use-solution of 1-2 ounces of this product per 4 gallons of water (or equivalent dilution) (200-400 ppm active quaternary) for at least 60 seconds. Articles too large for immersion should be thoroughly wetted by rinsing, spraying or swabbing. 5. Remove immersed items from solution to drain and then let air dry. Non-immersed items must be allowed to air dry.

**Mildewstat:** To control mold and mildew on pre-cleaned, hard, non-porous surfaces add 3 ounces of this product per 5 gallons of water. Apply solution with a cloth, mop, sponge, or hand pump trigger sprayer making sure to wet all surfaces completely. Let air dry. Prepare a fresh solution for each use. Repeat application at weekly intervals or when mildew growth appears.

**GENERAL DEODORIZATION:** To deodorize, add 3 ounces of this product to 5 gallons of water (or equivalent use dilution). Let air dry.

## 8759 GL - 10% SOLUTION DISINFECTANT - SANITIZER - DEODORIZER

\*VIRUCIDE - MILDEWSTAT (on hard non-porous, inanimate surfaces)

### ACTIVE INGREDIENTS:

Alkyl (60% C14, 30% C16, 5% C12, 5% C18) dimethyl benzyl ammonium chlorideS ..... 5.0%

Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chlorides ..... 5.0%

INERT INGREDIENTS: ..... 90.0%

TOTAL: ..... 100.0%

EPA REG. NO. 1839-86-59494

EPA EST. NO. 59494-MI-01

See side panel for additional precautionary statements

Visit [www.michigan.gov/msi](http://www.michigan.gov/msi) for more Disinfectant Information

## -KEEP OUT OF REACH OF CHILDREN- DANGER

### FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTE TOPHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

### ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your state Water Board or Regional Office of the EPA. Contains no phosphorus.

## STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL

**PESTICIDE STORAGE** – Store in a dry place no lower in temperature than 50°F or higher than 120°F. Store in a tightly closed container in an area inaccessible to children.

**CONTAINER DISPOSAL** – Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water and recap. Agitate vigorously. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat procedure two more times. Then offer for recycling or reconditioning. If not available, puncture and dispose in a sanitary landfill.

**PESTICIDE DISPOSAL** – Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**SPILL OR LEAK PROCEDURES** - Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained, the material then moved into containers and disposed of by approved methods for hazardous wastes.



Sold by:

*Department of Corrections  
Michigan State Industries  
17600 Ryan Road  
Detroit, MI 48212  
(313) 368-3200 ext. 2821646*

Net Contents: One Gallon

# FLOOR WAX STRIPPER

**NON-POLLUTING - PHOSPHATE  
FREE BIODEGRADABLE**

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
1	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.



8763

## DANGER

Causes severe skin and eye irritation.

## PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/  
face protection.

## PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position  
comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## DISPOSAL

Dispose of contents/container in accordance with  
local / regional / national / international regulations.



## JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

313.368.3200 x1112821646

# FLOOR SEALER

HIGH SOLIDS ACRYLIC  
UNDERCOAT

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.



8764

## DANGER

Causes skin and eye irritation.

## PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

## PRECAUTIONARY RESPONSE

**Immediately** call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



## JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

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# GLOSS COAT

*20% SOLIDS CONTENT  
ACRYLIC FLOOR FINISH*

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
1	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.



8765

## DANGER

Causes skin and eye irritation.  
Acute aquatic toxicity.

## PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/  
face protection.

## PRECAUTIONARY RESPONSE

**Immediately** call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



## JANITORIAL PRODUCTS

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Detroit, MI 48212

313.368.3200 x1112821646



8771



# CITRUS SUPER CLEANER

## CONCENTRATE

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
1	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.

### DANGER

Causes skin and eye irritation.

### PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

### PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/physician if you feel unwell.

*IF SWALLOWED:* Rinse mouth. Do NOT induce vomiting.

*IF INHALED:* Remove victim to fresh air, rest in a position comfortable for breathing.

*IF IN EYES:* Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

### DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



### JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

313.368.3200 x1112821646

# CITRUS GLASS CLEANER

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme
1	FLAMMABILITY	3 - Severe
0	REACTIVITY	2 - Moderate
		1 - Slight
		0 - None

Refer to product SDS for complete safety information.

8772



## DANGER

Causes skin and eye irritation.

## PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

## PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



## JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

313.368.3200 x1112821646

# DIAMOND GLOSS

## *FLOOR FINISH*

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
1	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.

### DANGER

Causes skin and eye irritation.

Acute aquatic toxicity.

### PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/  
face protection.

### PRECAUTIONARY RESPONSE

**Immediately** call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position  
comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

### DISPOSAL

Dispose of contents/container in accordance with  
local / regional / national / international regulations.



8792



### JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

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313.368.3200 x1112821646

**MICHIGAN STATE INDUSTRIES  
HEAVY DUTY LIQUID LAUNDRY DETERGENT**

**SAFETY DATA SHEET**

**SECTION 1 – PRODUCT NAME AND COMPANY IDENTIFICATION**



1.1 Product name: Heavy Duty Liquid Laundry Detergent  
General use: Proprietary industrial cleaner  
Product description: Green liquid with citrus odor  
Product number(s): 8800

1.2 Manufacturer: Michigan State Industries, 17600 Ryan Rd, Detroit, MI 48212  
Telephone number: (313) - 368 - 3200 x51412  
Emergency number: Poison Control Center: (800) - 222 - 1222

Date prepared: June 9, 2015; supersedes any previous editions  
Prepared by Kinetic Solutions (423-802-0684, petersteyn@msn.com)

**SECTION 2 – HAZARDS IDENTIFICATION**

2.1 Classification of the substance: Cat. 1A; Skin      Cat. 1; Eye      Cat. 2; Aquatic

GHS05      GHS09

2.2 Signal word: **DANGER**

2.3 Hazard statement: H314: Causes severe skin and eye irritation.  
H410: Very toxic to aquatic life with long lasting effects.

2.4 Precautionary prevention statements: P264: Wash exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

2.5 Precautionary response statements P312: Call a **POISON CENTER** or doctor / physician if you feel unwell.  
P301, P330, P381: **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.  
P304, P340: **IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.  
P305, P351, P338: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing as needed.

2.6 Precautionary disposal statement: P363: Wash contaminated clothing before reuse.  
P501: Dispose of contents/container in accordance with local / national / international regulations.

2.7 NFPA / HMIS rating: Factory      2, 0, 0, COR  
End User (concentrated/diluted)      1, 0, 0, COR

**SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS**

3.1 Hazardous components:	CAS #	% by wt.	OSHA PEL		ACGIH TLV		SARA TITLE III	RQ (lbs.)
			PPM	mg/M <sup>3</sup>	PPM	mg/M <sup>3</sup>		
Nonylphenol ethoxylate	9016-45-9	< 12%	Not est.		Not est.	311 / 312	None	
Potassium metasilicate	1312-76-1	< 4%	2	2	Not est.	311 / 312	None	

The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure.  
These components contain no substances or impurities which would influence the classification of this product.  
All components and their specific proportions in this product are considered proprietary to Michigan State Industries.

**SECTION 4 – FIRST AID MEASURES**

4.1 Description of first aid measures

General information: Immediately remove any clothing soiled by the product. Always seek medical help for any over exposure.

After inhalation: In case of unconsciousness place patient stably in side position for transportation. Supply fresh air. If required, provide artificial respiration. Keep patient warm.

After skin contact: Immediately rinse with water. Seek immediate medical advice.

After eye contact: Remove contact lenses if worn. Rinse eyes for several minutes under running water. Seek medical advice.

After swallowing: Do not induce vomiting; call for medical help immediately. Rinse out mouth and then drink plenty of water. A person vomiting while on their back should be turned onto their side.

# MICHIGAN STATE INDUSTRIES HEAVY DUTY LIQUID LAUNDRY DETERGENT

## SECTION 5 – FIRE FIGHTING PROCEDURES

- 5.1 Extinguishing media: Carbon dioxide, water fog, chemical foam, dry chemical. Material is non-flammable.
- 5.2 General hazards: Material is irritating, avoid contact and conditions that result in agitating or foaming the material.
- 5.3 Advice for firefighters: Protective equipment: Wear a self-contained respiratory protective device.
- 5.4 Unusual hazards: None.
- 5.5 Firefighting procedures: Keep containers cool with water spray to prevent container rupture due to steam buildup; floor will become slippery if material is released. Material is alkaline and will irritate the eyes if product or fumes contact the eyes.
- 5.6 Decomposition compounds: Oxides of carbon, sodium, silicon and potassium may be released with sufficient thermal energy.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 6.1 Protective equipment and emergency procedures: Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked / spilled product. Ensure adequate ventilation, material is irritating, avoid direct contact.
- 6.2 Environmental precautions: Dilute with plenty of water and do not allow it to enter sewers, surface or ground water.
- 6.3 Methods and materials for Containment and clean up: Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Use neutralizing agent. Clean the affected area carefully, dispose contaminated material as waste according to Section 13.
- 6.4 Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

## SECTION 7 – HANDLING AND STORAGE

- 7.1 Precautions for safe handling: Ensure good ventilation / exhaustion at the workplace. Prevent formation of aerosols.
- 7.2 Conditions for safe storage: Do not store together with acids or foodstuffs. Store in cool, dry conditions in well-sealed receptacles.
- 7.3 Specific end use(s): No further relevant information available.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure controls: **General protective and hygienic measures:** Keep away from foodstuffs and beverages. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid direct contact with the eyes and skin.
- Respiratory protection:** None required unless product is aerated or sprayed.
- Protection of hands:** Protective gloves, the glove material has to be impermeable and resistant to the product, such as neoprene, butyl or nitrile rubber gloves with cuffs.
- Eye protection:** Safety glasses and / or goggles with side shields.
- Body protection:** Protective work clothing.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Appearance: Green liquid
- Odor: Citrus
- Odor threshold: ND
- pH (10%): 12.0
- Melting point / freezing point: ND
- Initial boiling point and boiling range: ND
- Flash point: ND
- Evaporation rate: ND
- Flammability (solid, gas): ND
- Upper / lower flammability or explosive limits: ND
- Vapor pressure: ND
- Vapor density: ND
- Relative density: 1.07, 25°C
- Solubility: Complete
- Partition coefficient: n-octanol/water: ND
- Auto ignition temperature: ND
- Decomposition temperature: ND
- 9.2 Other information: None

# MICHIGAN STATE INDUSTRIES HEAVY DUTY LIQUID LAUNDRY DETERGENT

## SECTION 10 – STABILITY AND REACTIVITY

10.1	Reactivity:	No spontaneous reactivity
10.2	Chemical stability:	Thermal decomposition possible at temperatures exceeding 600°F, no decomposition if used according to specifications.
10.3	Possible hazardous reactions:	Corrosive action on metals, reacts with powdered metals, reacts strongly with acids.
10.4	Conditions to avoid:	No further relevant information available.
10.5	Incompatible materials:	Strong oxidizers and acids.
10.6	Decomposition products:	Oxides of carbon, sodium, potassium, silicon and nitrogen.

## SECTION 11 – TOXICOLOGICAL INFORMATION

11.1	Hazardous Ingredients	CAS #	EINECS #	LD 50, species / route / concentration
	Nonylphenol ethoxylate	9016-45-9	104-40-5	Rat, oral, 3908 mg/kg
	Potassium metasilicate	1312-76-1	215-199-1	Rat, oral, 800 mg/kg
11.2	Serious eye damage/irritation:	Causes severe eye damage.		
11.3	Respiratory or skin sensitization:	No data available		
11.4	Repeated dose toxicity:	No data available		
11.5	STOT (single/repeated)	No data available		
11.6	Carcinogenicity:	No data available		
11.7	Mutagenicity:	No data available		
11.8	Reproductive toxicity:	No data available		

## SECTION 12 – ECOLOGICAL INFORMATION

12.1	Toxicity:	Nonylphenol ethoxylate:	LC50, Fathead minnow, 3.8 mg/liter (96 hours)
		Potassium metasilicate:	LC50, Fathead minnow, 500 mg/liter (96 hours)
		Finished product:	No available data
12.2	Persistence and degradability:	Expected to be easily biodegradable based on composition.	
12.3	Bio accumulative potential:	Not expected to exhibit this behavior based on composition.	
12.4	Soil mobility:	No specific data available.	
12.5	General information:	No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.	

## SECTION 13 – DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods:	It is recommended that small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Refer to 40 CFR 260 - 299 for complete waste disposal regulations for alkaline materials. Consult your local, state, or federal agency before disposing of any chemicals.
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# MICHIGAN STATE INDUSTRIES HEAVY DUTY LIQUID LAUNDRY DETERGENT

## SECTION 14 – TRANSPORTATION INFORMATION

14.1	UN number:	UN1760
	DOT, ADR, IMDG, IATA	
14.2	Proper shipping name:	Corrosive liquid, N.O.S.
	DOT, ADR, IMDG, IATA	
14.3	Transport hazard class:	8
	DOT, ADR, IMDG, IATA	
14.4	Packing group:	III, Corrosive
	DOT, ADR, IMDG, IATA	
14.5	Environmental hazards:	Yes
	Marine	

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

## SECTION 15 – REGULATORY INFORMATION

15.1	TSCA:	All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.
15.2	SARA TITLE III:	Not regulated under 302, 303, 313. Regulated under 311 / 312.
15.3	CERCLA:	Ethylene oxide CAS # 75-21-8 RQ 10 lbs. 1,4-dioxane CAS # 123-91-1 RQ 10 lbs.
15.4	Clean Air Act:	No ingredients defined as Hazardous Air Pollutants or Stratospheric Ozone Depleting.
15.5	California Prop. 65:	This product contains a chemical(s) known to the state of California to cause cancer. (Ethylene oxide CAS # 75-21-8, 1,4-dioxane CAS # 123-91-1)
15.6	Right To Know:	NJ, PA, MI, RI, MN for nonylphenol ethoxylate (CAS # 9016-45-0). MA, MI, MN for ethylene oxide (CAS # 75-21-8) and 1,4-dioxane (CAS # 123-91-1).
15.7	CPR classification:	WHMIS Classification: D2B, E
15.8	Canadian IDL:	Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.
15.9	Can. DSL / NDSL:	Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.
15.10	EINECS:	Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

## SECTION 16 – OTHER INFORMATION

16.1	Risk phrases:	R35 / 41: Causes serious skin burns / Risk of serious damage to eyes. R400: Toxic to aquatic life with long lasting effects.
	Safety phrases:	S36 / 37 / 39: Wear protective clothing, gloves, and eye / face protection.



GHS05



GHS09

Symbol for label:

Terms and Conditions. This SDS is designed only as guidance for the products to which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of use or fitness for particular purpose. The information contained herein is based on the manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor the manufacturer (nor the agents, directors, officers, contractors or employees of either) are liable to any party for any damages of any nature, including direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of any information in this SDS, or in any other way related (directly or indirectly) to this SDS. The receipt and use of this information constitutes consent to these terms and conditions.



*LIQUID, CHLORINE*

# **LAUNDRY BLEACH**

*ECONOMICAL AND EFFECTIVE*

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information

## **DANGER**

Causes severe skin and eye irritation.

## **PRECAUTIONARY STATEMENTS**

Wash exposed skin thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

## **PRECAUTIONARY RESPONSE**

Call a POISON CENTER or doctor/physician if you feel unwell.

*IF SWALLOWED:* Rinse mouth. Do NOT induce vomiting.

*IF INHALED:* Remove victim to fresh air, rest in a position comfortable for breathing.

*IF IN EYES:* Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## **DISPOSAL**

Dispose of contents/container in accordance with local / regional / national / international regulations.



8801



## **JANITORIAL PRODUCTS**

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

313.368.3200 x1112821646



# LAUNDRY ALKALI BUILDER

NFPA RATING		HAZARDS
2	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.

## DANGER

Causes severe skin and eye irritation.

## PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves / protective clothing / eye protection / face protection.

## PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/ physician.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



8802



## JANITORIAL PRODUCTS

INSTITUTIONAL CLEANING SUPPLIES

Michigan State Industries

17600 Ryan Rd.

Detroit, MI 48212

313.368.3200 x1112821646

# ZERO PHOSPHATE LIQUID LAUNDRY DETERGENT

NFPA RATING		HAZARDS
1	HEALTH	4 - Extreme 3 - Severe
0	FLAMMABILITY	2 - Moderate 1 - Slight
0	REACTIVITY	0 - None

Refer to product SDS for complete safety information.



8810

## WARNING

Causes skin and eye irritation.

## PRECAUTIONARY STATEMENTS

Wash exposed skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

## PRECAUTIONARY RESPONSE

Call a POISON CENTER or doctor/physician if you feel unwell.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

**IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing as needed.

Wash contaminated clothing before reuse.

## DISPOSAL

Dispose of contents/container in accordance with local / regional / national / international regulations.



## JANITORIAL PRODUCTS

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