

**MICHIGAN STATE INDUSTRIES
ZERO PHOSPHATE LIQUID LAUNDRY DETERGENT**

SAFETY DATA SHEET

SECTION 1 – PRODUCT NAME AND COMPANY IDENTIFICATION

1.1 Product name: Zero Phosphate Liquid Laundry Detergent
General use: Proprietary industrial cleaner
Product description: blue liquid with pleasant odor
Product number(s): 8810

1.2 Manufacturer: Michigan State Industries, 17600 Ryan Rd, Detroit, MI 48212
Telephone number: (313) - 368 - 3200 x1112821646
Emergency number: Poison Control Center: (800) - 222 - 1222

SECTION 2 – HAZARDS IDENTIFICATION

2.1 Classification of the substance: Cat. 2B; Eye


2.2 Signal word: **Warning**

2.3 Hazard statement: H314: Causes and eye irritation.

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: P501: Dispose of contents/container in accordance with local / national / international regulations.

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

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Components:	CAS #	% by wt.	OSHA PEL		ACGIH TLV		SARA TITLE III	RQ (lbs.)
			PPM	mg/M ³	PPM	mg/M ³		
Sulfonated Esters	149458-07-1	40-60	Not est.		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: 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.

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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:	None Known
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:	None Known

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. Keep in suitable, closed containers.
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:	<p>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.</p> <p>Respiratory protection: None required unless product is aerated or sprayed.</p> <p>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.</p> <p>Eye protection: Safety glasses and / or goggles with side shields.</p> <p>Body protection: Protective work clothing.</p>
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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1	Appearance:	Light Blue Liquid
	Odor:	Fresh sent
	Odor threshold:	Not available
	pH (10%):	8.0-9.0
	Melting point / freezing point:	Not available
	Initial boiling point and boiling range:	Not available
	Flash point:	Not available
	Evaporation rate:	<1
	Flammability (solid, gas):	N/A-Liquid
	Upper / lower flammability or explosive limits:	Not available
	Vapor pressure:	Not available
	Vapor density:	Not available
	Solubility:	Not available
	Partition coefficient: n-octanol/water:	Not available
	Auto ignition temperature:	Not available
	Decomposition temperature:	Not available
	Specific gravity	1.01
	VOC (weight %)	Not determined
9.2	Other information:	None

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SECTION 10 –STABILITY AND REACTIVITY

10.1	Reactivity:	The product is stable and non-reactive under normal conditions of use, storage and transport.
10.2	Chemical stability:	Material is stable under normal conditions
10.3	Possible hazardous reactions:	None under normal processing, Hazardous polymerization does not occur.
10.4	Conditions to avoid:	None Known
10.5	Incompatible materials:	None Known.
10.6	Decomposition products:	None known based on information supplied

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1	Ingredients	CAS #	EINECS #	LD 50, species / route / concentration
	This product contains no substance which at their given concentration, are considered to be hazardous to health			
11.2	Serious eye damage/irritation:	Causes eye irritation		
11.3	Respiratory or skin sensitization:	Prolonged contact may causes skin irritation		
11.4	Repeated dose toxicity:	No data available		
11.5	STOT (single/repeated)	No data available		
11.6	Carcinogenicity:	This product is not considered to be carcinogen by IARC, ACGIH, NTP, or OSHA		
11.7	Mutagenicity:	No data available		
11.8	Reproductive toxicity:	This product is not expected to cause reproductive or developmental effects.		

SECTION 12 – ECOLOGICAL INFORMATION

12.1	Ecotoxicity:	The product is not classified as environmentally hazardous. However, this does not exclude the Possibility that large or frequent spills can have a harmful or damaging effect on the environment.
12.2	Persistence and degradability:	No data is available on the degradability of this product..
12.3	Bio accumulative potential:	No information available.
12.4	Other adverse effects:	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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SECTION 14 – TRANSPORTATION INFORMATION

DOT Not regulated as dangerous
IMDG Not regulated as dangerous
IATA Not regulated as dangerous

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

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

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. not regulated under 311 / 312.

15.3 CERCLA: Not Listed

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 Safety phrases: S36 / 37 / 39: Wear protective clothing, gloves, and eye / face protection.

Symbol for label:



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