SAFETY DATA SHEET

SECTION 1 – PRODUCT NAME AND COMPANY IDENTIFICATION

1.1 Product name: General use: Product description: Product number(s): Liquid Laundry Sour Proprietary industrial cleaner Clear liquid 8803

 1.2
 Manufacturer:
 Michigan State Industries, 1780 E. Parnall Rd, Jackson, MI

 Telephone number:
 49201 (517) - 780 - 6726

 Emergency number:
 Poison Control Center: (800) - 222 - 1222

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SECTION 2 – HAZARDS IDENTIFICATION

2.1	Classification of the substance:		Cat. 1A; Skin C	Cat. 1; Eye	GHS05
2.2	Signal word:		DANGER		
2.3	Hazard statement:	H314:	Causes severe skin a	and eye irritatio	٦.
2.4	Precautionary prevention statements:	P264:	Wash exposed skin th	horoughly after	handling.
		P280:	Wear protective glove	es/protective clo	othing/eye protection/face protection.
2.5	Precautionary response statements	P312:	Call a POISON CENT	TER or doctor /	physician if you feel unwell.
		P301, P330, P381:	IF SWALLOWED: Ri	inse mouth. Do	NOT induce vomiting.
		P304, P340:	IF INHALED: Remov	e victim to frest	n air, rest in a position comfortable for
			breathing.		
		P305, P351, P338:	IF IN EYES: Rinse ca	autiously with w	ater for several minutes. Remove contact
			lenses, if present and	d easy to do. Co	ontinue rinsing as needed.
		P363:	Wash contaminated of	clothing before	reuse.
2.6	Precautionary disposal statement:	P501:	Dispose of contents/c	container in acc	ordance with local / national / international
			regulations.		
2.7	NFPA / HMIS rating: Factory		3, 0, 1, COR		
	End User (concen	trated/diluted)			

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Hazardous components:	CAS #	% by wt.	<u>OSHA P</u> PPM	<u>EL</u> mg/M ³	ACGIH PPM	<u>TLV</u> mg/M ³		SARA TITLE III	RQ (lbs.)
	Phosphoric acid Oxalic acid	7664-38-2 144-62-7	< 40% < 20%	1 1	1 1		1 1	1 1	311 / 312 311 / 312	None 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: After inhalation:	Immediately remove any clothing soiled by the product. Always seek medical help for any over exposure. 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.

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 and potassium may be released with sufficient thermal energy.
	SE	ECTION 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	Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust). Use neutralizing agent.
	containment and clean up:	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: Odor: Odor threshold: pH (10%): Melting point / freezing point: Initial boiling point and boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Upper / lower flammability or explosive limits: Vapor pressure: Vapor density: Relative density: Solubility: Partition coefficient: n-octanol/water: Autoignition temperature: Decomposition temperature:	Clear liquid Mild ND 1.0 ND > 100°C ND ND ND ND ND ND 1.01, 25°C Complete ND ND ND
9.2	Other information:	None

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 reaction	s: Corrosive action on metals, reacts with powdered metals, reacts strongly with bases.
10.4	Conditions to avoid:	No further relevant information available.
10.5	Incompatible materials:	Strong oxidizers and bases.
10.6	Decomposition products:	Oxides of carbon, sodium, potassium.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1	1 Hazardous Ingredients CAS #		EINECS #	LD 50, species / route / concentration
	Phosphoric acid Oxalic acid	7664-38-2 144-62-7	231-595-7 205-634-3	Rat, oral, 90 ml/kg Rat, oral, 7500 mg/kg
11.2 11.3 11.4 11.5 11.6 11.7 11.8	Serious eye damage/irritation: Respiratory or skin sensitization: Repeated dose toxicity: STOT (single/repeated) Carcinogenicity: Mutagenicity: Reproductive toxicity:	Causes severe eye No data available No data available No data available No data available No data available No data available	damage.	

SECTION 12 – ECOLOGICAL INFORMATION

12.1	Toxicity:	Phosphoric acid Oxalic acid Finished product:	LC50, Fathead minnow, 280 ml/liter (96 hours) LC50, Fathead minnow, 1350 mg/liter (96 hours) No available data	
12.2 12.3 12.4	Persistence and degradability: Bioaccumulative potential: Soil mobility:	Expected to be easily biodegradable based on composition. Not expected to exhibit this behavior based on composition. No specific data available.		
12.5	General mormation.	BOD data are available on the adverse effects of this material of the environment. Neither COD for 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.

SECTION 14 – TRANSPORTATION INFORMATION

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

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 15.3	SARA TITLE III: CERCLA:	Not regulated under 302, 303, 313. Regulated under 311 / 312. Not listed.
15.4 15.5	Clean Air Act: California Prop. 65:	No ingredients defined as Hazardous Air Pollutants or Stratospheric Ozone Depleting. Not listed.
15.6 15.7	Right To Know: CPR classification:	NJ, PA, MI, RI, MN for phosphoric acid (CAS # 7664-38-2), oxalic acid (CAS # 144-62-7). WHMIS Classification: D2B, F
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.
	Safety phrases:	S36 / 37 / 39: Wear protective clothing, gloves, and eye / face protection.

GHS05

Symbol for label:

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