



**INNOVATIVE
CHEMICAL
CORPORATION**

7769 95th Street South
Cottage Grove, MN

SAFETY DATA SHEET

Revision Date: 8/14/2015
Emergency Phone: 1-800-535-5053 (Infotrac)

Section 1: Identification

Product Name: Laundry Sour
Chemical Type: Liquid

Code: 98PLS00
Manufacturer/Supplier:
Innovative Chemical Corporation
7769 95th Street South
Cottage Grove, MN 55016
651-649-1762

Section 2: Hazard(s) Identification

GHS Classification

Corrosive to Metals	Category 1
Acute toxicity - Inhalation	Category 4
Skin corrosion/irritation	Category 1A
Serious eye damage/eye irritation	Category 1

GHS Label element

Signal word: Danger
Hazard statements: May be corrosive to metals.
Causes severe skin burns and eye damage.
Harmful if inhaled.



Precautionary Statements

Prevention: Keep only in original container. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not mix with bleach or other chlorinated products – will cause chlorine gas.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at 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. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage.

Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant liner.

Disposal: Dispose of contents/ container to an approved waste disposal plant.
Other hazards: None known.

Section 3: Composition/Information on Ingredients

CAS number/other identifiers

Hazardous Components		
Chemical Name	%weight	CAS
Phosphoric acid	30-60	7664-38-2
citric acid	5-10	77-92-9
phosphonic acid, (1-hydroxyethylidene)bis-	1-5	2809-21-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational limits, if available are listed in Section 8.

Section 4: First-Aid Measures

Description of first aid measures

In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
If swallowed	Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
If inhaled	Remove to fresh air. Treat symptomatically. Get medical attention.
Protection of first-aiders	If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Notes to Physician	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	See Section 11 for more detailed information on health effects and symptoms.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None known.
Specific hazards during fire fighting	Not flammable or combustible.
Hazardous combustion products	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

Special protective equipment for fire-fighters	Use personal protective equipment.
Specific extinguishing methods	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section 7: Handling and Storage

Precautions for safe handling

Advice on safe handling	Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions for safe storage	Keep away from strong bases. Keep out of reach of children. Store in suitable labeled containers.
Storage temperature	0 °C to 50 °C

Section 8: Exposure Controls/Personal Protection

Ingredients with workplace control parameters

Ingredients	Form of exposure	Permissible concentration	Basis
Phosphoric acid	TWA	1 mg/m ³	ACGIH
	STEL	3 mg/m ³	ACGIH
	TWA	1 mg/m ³	NIOSH REL
	STEL	3 mg/m ³	NIOSH REL
	TWA	1 mg/m ³	OSHA Z1

Engineering measures	Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.
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Personal protective equipment

Eye protection	Wear eye protection/ face protection.
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Hand protection	Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin protection	Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section 9: Physical and Chemical Properties

Physical state	Liquid
Color	Blue
Odor	None Added
pH	2
Flash point	Not Applicable
Odor Threshold	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	> 100 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Relative density	1.22 - 1.23
Water solubility	soluble
Solubility in other solvents	No data available
Partition coefficient: noctanol/water	No data available
Autoignition temperature	No data available
Thermal decomposition	No data available

Viscosity, kinematic No data available

Explosive properties No data available

Oxidizing properties The substance or mixture is not classified as oxidizing

Molecular weight No data available

VOC No data available

Section 10: Stability and Reactivity

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Do not mix with bleach or other chlorinated products – will cause chlorine gas.
Conditions to avoid	None known.
Incompatible materials	Bases Metals Acids Organic materials
Hazardous decomposition products	Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus

Section 11: Toxicological Information

Information on likely routes of exposure

Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes	Causes serious eye damage.
Skin	Causes severe skin burns.
Ingestion	Causes digestive tract burns.
Inhalation	Harmful if inhaled. May cause nose, throat, and lung irritation.
Chronic Exposure	Health injuries are not known or expected under normal use.

Experience with human exposure

Eye contact	Redness, Pain, Corrosion
Skin contact	Redness, Pain, Corrosion
Ingestion	Corrosion, Abdominal pain
Inhalation	Respiratory irritation, Cough

Toxicity

Acute oral toxicity	Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	4 h Acute toxicity estimate : 3.21 mg/l

Acute dermal toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye	No data available
Respiratory or skin sensitization	No data available
Carcinogenicity	No data available
Reproductive	No data available
Germ cell mutagenicity	No data available
Teratogenicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration toxicity	No data available

Ingredients

Acute dermal toxicity	Phosphoric acid LD50 Rabbit: > 2,000 mg/kg phosphonic acid, (1-hydroxyethylidene)bisLD50 Rabbit: > 10,000 mg/kg
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Section 12: Ecological information

Ecotoxicity

Environmental Effects	Harmful to aquatic life.
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Product

Toxicity to fish	No data available
Toxicity to daphnia and other aquatic invertebrates	No data available
Toxicity to algae	No data available

Ingredients

Toxicity to fish	Phosphoric acid 96 h LC50: 75.1 mg/l citric acid 96 h LC50 Fish: > 100 mg/l phosphonic acid, (1-hydroxyethylidene)bis- 96 h LC50 Fish: 368 mg/l
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Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Other adverse effects

Not available.

Section 13: Disposal considerations

Disposal methods

The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations

Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not reuse empty containers. Dispose of in accordance with local, state, and federal regulations.

RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste

D002 (Corrosive)

Section 14: Transport information

Regulatory info	UN number	Proper shipping name	Classes	PG	Environmental hazards	Additional info
DOT Classification	1805	Phosphoric acid solution (Phosphoric acid)	8	III.	No.	
TDG Classification	1805	Phosphoric acid solution (Phosphoric acid)	8	III.	No.	
Mexico Classification	1805	Phosphoric acid solution (Phosphoric acid)	8	III.	No.	
ADR/RID Class	1805	Phosphoric acid solution (Phosphoric acid)	8	III.	No.	
IMDG Class	1805	Phosphoric acid solution (Phosphoric acid)	8	III.	No.	
IATA-DGR Class	1805	Phosphoric acid solution (Phosphoric acid)	8	III.	No.	

Section 15: Regulatory information

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
Phosphoric acid	7664-38-2	5000	16667

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Acute Health Hazard

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The components of this product are reported in the following inventories:

- TSCA** On TSCA Inventory
- DSL** This product contains one or several components that are not on the Canadian DSL nor NDSL.
- AICS** not determined
- NZIoC** not determined
- PICCS** not determined
- IECSC** not determined

Inventory Acronym and Validity Area Legend:

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

Section 16: Other information

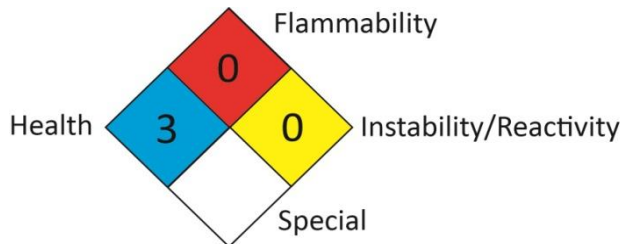
Hazardous Material
Information System (U.S.A.):

Health	*3
Flammability	0
Physical hazards	0

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The customer is responsible for determining the PPE code for this material.

National Fire Protection Association:



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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist