



# Material Safety Data Sheet

Version 2.201  
Revision Date 3/15/2023

MSDS Number 021  
Print Date 3/15/2023

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: San Step NS Acid Sanitizer  
Recommended use: Hard Surface Cleaner  
Manufacturer/Supplier: LOGIC, Inc.  
PO Box 1586  
Midlothian, VA 23113  
844-655-6442  
Emergency Phone: 608-658-2866

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Commented [2]: Note: comparison with "most current" mega-san sds sent from delaval

version date: 17-May-2016

Revisions are made in comments because this version of san step is more current than the Delaval SDS

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## 2. HAZARDS IDENTIFICATION

**GHS Classification** : Serious eye damage/eye irritation - Category 1, Sub-category B  
Skin corrosion/Irritation - Category 1  
Specific target organ toxicity (single exposure) – Category 3

**Corrosive to metals** : Category 1

### GHS Labeling Elements

**GHS Pictograms** :



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**GHS Signal Word** : DANGER  
**GHS Hazard Statements** : Causes severe skin burns and eye damage  
May cause respiratory irritation. May cause drowsiness or dizziness  
May be corrosive to metals

**GHS Precautionary Statements – Prevention** : Do not breathe dust/fumes/gas/mist/vapor/spray  
Wash face, hands, and any exposed skin thoroughly after handling  
Wear eye protection, protective gloves, protective clothing  
Use only outdoors or in a well-ventilated area



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**GHS Precautionary Statements – Response** : Immediately call a POISON CENTER or doctor/physician  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.  
Rinse skin with water/shower. 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/physician  
Call a POISON CENTER or doctor/physician if you feel unwell  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

**GHS Precautionary Statements – Storage** : Store locked up  
Store in a well-ventilated place. Keep container tightly closed

**GHS Precautionary Statements – Disposal** : Dispose of contents/container to an approved waste disposal plant

**Other Hazards not otherwise classified** : Not applicable.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS-No	Weight %	Trade Secret
Propionic Acid	79-09-4	10 - 20 %	*
Capric acid/Decanoic acid	334-48-5	0 - 10 %	*
Pelargonic acid/Nonanoic acid	112-05-0	0 - 10 %	*
Phosphoric acid	7664-38-2	20 - 30 %	*

\* The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST-AID MEASURES

**Eye Contact** : Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

**Skin Contact** : Wash off immediately with plenty of water for at least 15 minutes. Call a physician immediately.

**Inhalation** : Move to fresh air. If not breathing, give artificial respiration. Call a physician immediately.

**Ingestion** : Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

**Most Important Symptoms and Effects** : Corrosive. The product causes burns of eyes, skin and mucous membranes.  
According to our experience and to the information provided to us, the product does not have any harmful effects at use dilution as specified

### Indication of any immediate medical attention and special treatment needed

**Notes to Physician** : Treat symptomatically

## 5. FIRE-FIGHTING MEASURES



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## Suitable Extinguishing Media

Water spray. Dry chemical. alcohol-resistant foam. Carbon dioxide (CO2).

**Unsuitable Extinguishing Media** : Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

## Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes.

## Explosion Data

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protection gear.

6.

**ACCIDE**

## NTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes and clothing. Use personal protective equipment.

### Environmental Precautions

**Environmental Precautions** Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

**Methods for cleaning up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Handling** : Avoid contact with skin, eyes and clothing.

### Conditions for safe storage, including any incompatibilities

**Storage** : Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible Materials** bases. organic materials. light metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Keep out of the reach of children** This product does not contain any hazardous materials with occupational exposure established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Propionic acid 79-09-4	TWA: 10 ppm	TWA: 10 ppm TWA: 30 mg/m3	
Phosphoric acid 7664-38-2	TWA: 1 mg/m3 STEL: 3 mg/m3	TWA: 1 mg/m3 STEL: 3 mg/m3	1000 mg/m3

### Appropriate engineering control



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<b>Skin and body protection</b>	No special technical protective measures are necessary.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Liquid		
Appearance	Clear Colorless	<b>Odor</b>	Pi
Color	No information available	<b>Odor Threshold</b>	N
<b>Property</b>	<b>Values</b>	<b>Remarks / Method</b>	
pH	2		
Melting point/freezing point	No information available		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation rate	No information available		
Flammability (solid, gas)	No information available		
Flammability Limit in Air	No information available		
Upper flammability limit	No information available		
Lower flammability limit	No information available		
Vapor Pressure	No information available		
Vapor Density	No information available		
Specific Gravity	1.22		
Water Solubility	Soluble		
Solubility in other solvents	No information available		
Partition coefficient: n-octanol/water	No information available		
Autoignition Temperature	No information available		
Decomposition temperature	No information available		
Viscosity of Product	No information available		
Dynamic viscosity	No information available		
Explosive Properties	No information available		
Oxidizing Properties	No information available		
<b>Other information</b>	No information available		
Softening Point	No information available		
Molecular Weight	No information available		
VOC Content	No information available		
Density	10.1 lb/gal		
Bulk Density	No information available		

## 10. STABILITY AND REACTIVITY

Reactivity  
No data available

Chemical Stability  
Stable under normal conditions



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## Possibility of hazardous reactions

Gives off hydrogen by reaction with some metals (e.g. aluminum).

## Conditions to Avoid

Extremes of temperature and direct sunlight.

## Incompatible Materials

bases, organic materials, light metals.

## Hazardous decomposition products

None known

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	No Data Available
<b>Inhalation</b>	No Data Available
<b>Eye Contact</b>	No Data Available
<b>Skin Contact</b>	No Data Available
<b>Ingestion</b>	No Data Available

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 Inhalation</b>
Propionic acid 79-09-4	= 2600 mg/kg (Rat)	= 496 mg/kg (Rabbit)	= 4650 ppm (Rat) 8 h
Capric acid / Decanoic acid 334-48-5	= 3320 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Pelargonic acid / Nonanoic acid 112-05-0	= 5000 mg/kg (Rat)	= 2000 mg/kg (Rat)	-
Phosphoric acid 7664-38-2	= 1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	850 mg/m <sup>3</sup> (Rat) 1 h

### Information on toxicological effects

**Symptoms** No information available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Sensitization</b>	No information available
<b>Mutagenic effects</b>	No information available
<b>Carcinogenicity</b>	No information available
<b>Reproductive Effects</b>	No information available
<b>STOT - single exposure</b>	No information available
<b>STOT - repeated exposure</b>	No information available
<b>Aspiration Hazard</b>	No information available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

30% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

<b>Chemical Name</b>	<b>Algae/aquatic plants</b>	<b>Fish</b>	<b>Microtox</b>	<b>Waterflea</b>
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Propionic acid 79-09-4	45.8: 72 h Desmodesmus subspicatus mg/L EC50 43: 96 h Desmodesmus subspicatus mg/L EC50	1: 96 h Pimephales promelas mg/L LC50 static 73 - 99.7: 96 h Lepomis macrochirus mg/L LC50 static 51: 96 h Oncorhynchus mykiss mg/L LC50 static	EC50 = 59.6 mg/L 17 h	-
Capric acid / Decanoic acid 334-48-5	-	54: 96 h Oryzias latipes mg/L LC50 semi-static	EC50 = 11.2 mg/L 5 min EC50 = 9.0 mg/L 25 min EC50 = 9.31 mg/L 15 min	65: 24 h Daphnia magna mg/L EC50
Pelargonic acid / Nonanoic acid 112-05-0	-	93.4 - 115: 96 h Pimephales promelas mg/L LC50 flow-through 68 - 121: 96 h Oncorhynchus mykiss mg/L LC50 static 105: 96 h Lepomis macrochirus mg/L LC50 static	-	-
Phosphoric acid 7664-38-2	-	3 - 3.5: 96 h Gambusia affinis mg/L LC50	-	4.6: 12 h Daphnia magna mg/L EC50

#### Persistence and degradability

No information available

#### Bioaccumulation/Accumulatio

No information available

Chemical Name	Partition coefficient
Propionic acid 79-09-4	0.25 - 0.33
Capric acid / Decanoic acid 334-48-5	4.09

#### Other adverse effects

No information available

## 13.DISPOSAL CONSIDERATIONS

#### Waste treatment methods

<b>Waste Disposal Method</b>	Dispose of in accordance with local regulations. Should not be released into the environment.
<b>Contaminated Packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal

## 14.TRANSPORTATION INFORMATION

#### DOT

UN-No	3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s ( Phosphoric acid, Propionic acid Solution )
Hazard Class	8
Packing Group	II

## 15.REGULATORY INFORMATION

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## International Inventories

TSCA	TSCA
DSL/NDSL	DSL/NDSL
EINECS/ELINCS	Complies
ENCS	Does not Comply
CHINA	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List  
ENCS - Japan Existing and New Chemical Substances  
IECSC - China Inventory of Existing Chemical Substances  
KECL - Korean Existing and Evaluated Chemical Substances  
PICCS - Philippines Inventory of Chemicals and Chemical Substances  
AICS - Australian Inventory of Chemical Substances

## Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazardous

#### Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Propionic acid 79-09-4	5000 lb	-	-	X
Phosphoric acid 7664-38-2	5000 lb	-	-	X

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	RQ	CERCLA EHS RQs	RQ
Propionic acid 79-09-4	5000	-	RQ 5000 lb final RQ RQ 2270 kg final RQ
Phosphoric acid 7664-38-2	5000	-	RQ 5000 lb final RQ RQ 2270 kg final RQ



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## State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

#### U.S. EPA Label information

EPA Pesticide registration number      Not applicable

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## 16. OTHER INFORMATION

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. LOGIC, Inc. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet

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