

# Safety Data Sheet



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## Section 1. Chemical Product and Company Identification

**Product Name** K-San Plus  
**Product Use** Sodium Hypochlorite 10.5%  
**Product Code** 7450  
**Date of Issue** 6/7/2017  
**Supersedes** 8/22/2016

### Emergency Telephone Numbers

**CHEMTREC- 1-800-424-9300**

(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

## Section 2. Hazards Identification

### Emergency Overview

**DANGER**



### Health Hazards

Skin Corrosion/Irritation Category 1  
Serious eye damage/ eye irritation Category 1

### Physical Hazards

Corrosive to Metals Category 1

### Precautionary Statements:

P234 Keep in original container  
P260 Do not breathe in mist/vapors/spray/fumes  
P264 Wash hands thoroughly after handling  
P280 Wear protective gloves, clothing and eye protection  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Remove all contaminated clothing immediately. Rinse skin with water/shower.  
P304+P340 IF INHALED: Remove victim to fresh air and keep 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.  
P310 Immediately call a poison center or physician  
P363 Wash all contaminated clothing before reuse  
P390 Absorb spillage to prevent material damage  
P404 Store in a closed container  
P405 Store locked up  
P501 Dispose of in accordance with all federal, state and local regulations

### Hazard Statements:

H290 May be corrosive to metals  
H314 Causes severe skin burns and eye damage

### Routes of Entry Dermal, Oral, and Inhalation

### Acute Effects:

**Eyes** Can cause severe irritation, reddening, and eye damage  
**Skin** Can cause severe irritation, reddening, and skin damage  
**Inhalation** Causes severe respiratory tract irritation and pulmonary edema.  
**Ingestion** Causes pain and inflammation of the mouth, pharynx, esophagus, stomach and erosion of mucous membranes.

Swallowing leads to tissue burns, severe abdominal pain, nausea, vomiting, circulatory collapse, confusion, delirium, coma, and collapse. Swallowing large quantities can cause death.

### Section 3. Composition/Information on Ingredients

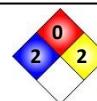
<u>Name of Hazardous Ingredients</u>	<u>CAS Number</u>	<u>% by Weight</u>
Sodium Hypochlorite	7681-52-9	10
Sodium Hydroxide	1310-73-2	<5

### Section 4. First Aid Measures

<b>Eye Contact</b>	Flush immediately with clean water for at least 15 minutes. Seek immediate medical attention.
<b>Skin Contact</b>	Remove contaminated clothing and shoes; wash before reuse. Flush immediately with clean water for at least 15 minutes. Get medical attention for burns or irritation.
<b>Inhalation</b>	Remove person to fresh air. Begin CPR if breathing has stopped, and seek medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. If conscious, give several glasses of water. Do not give baking soda or acid antidotes. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

### Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A)  
(estimated rating)



<b>Hazardous Combustion Products</b>	N/A
<b>Extinguishing Media</b>	Media applicable to surrounding fire
<b>Unsuitable Extinguishing Media</b>	N/A
<b>Fire Fighting Procedures</b>	Wear protective gear. Use water spray to cool fire-exposed containers.
<b>Unusual Fire and Explosion Hazards</b>	Product decomposes when heated; decomposition products may cause containers to rupture or explode.

### Section 6. Accidental Release Measures

<b>Spill Clean Up</b>	Wear alkali-resistant slicker suit and complete protective equipment including goggles, rubber gloves, rubber boots, and a self-contained breathing apparatus in the pressure demand mode or a supplied-air respirator. If the spill or leak is small, a full face piece air-purifying cartridge respirator equipped with acid gases/mists filters may be satisfactory. In any event, always wear eye protection. For small spills mop or wipe up and dispose of in DOT-approved waste containers. For large spills, contain by diking with soil or other non-combustible absorbent material and dispose of according to federal or local regulations. Keep non-neutralized material out of sewers, storm drains, surface waters, and soil.
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### Section 7. Handling and Storage

<b>Handling and Storage</b>	Keep container tightly closed when not in use. Store in vented, closed, clean, non-corrodible containers in cool dry location, away from direct sunlight and not adjacent to chemical, which may react with the product; if spillage occurs. If closed containers become heated, they should be vented to release decomposition products (mainly oxygen under normal decomposition). Do not mix or contaminate with ammonia, hydrocarbon acids, alcohols and ethers. Keep out of the reach of children. Have eyewash accessible to use in handling area. Long storage periods should be avoided as product degrades with age. Containers of this material may be hazardous when emptied; empty containers retain product residues.
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## Section 8. Exposure Controls/Personal Protection

### Exposure Limits

Product Name	OSHA PEL	NIOSH REL	AIHA WEEL	ACGIH TLV
Sodium Hydroxide (1310-73-2)	2mg/m <sup>3</sup>	2mg/m <sup>3</sup>		2mg/m <sup>3</sup>

**Engineering Controls** Local mechanical exhaust ventilation capable of minimizing emissions at the point of use



### Personal Protective Equipment (PPE)

**Eyes** Chemical splash goggles and face shield

**Body** Rubber or neoprene gloves; rubber boots and wet suit to prevent contact

**Respiratory** Use NIOSH approved respirator as necessary for the vapor and mist concentrations

## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid	<b>Explosive Limits</b>	N/A
<b>Color</b>	Clear yellow	<b>Vapor Pressure</b>	6-7.5 kPa @ 50°C
<b>Odor</b>	Strong chlorine bleach odor	<b>Vapor Density</b>	N/A
<b>Odor Threshold</b>	N/A	<b>Relative Density</b>	N/A
<b>pH</b>	12.31-13.05	<b>Solubility</b>	Complete
<b>Freezing Point</b>	N/A	<b>Partition Coefficient</b>	N/A
<b>Boiling Point</b>	219-225°F	<b>Auto-Ignition Temp.</b>	N/A
<b>Flash Point</b>	Not combustible	<b>Decomposition Temp.</b>	N/A
<b>Evaporation Rate</b>	N/A	<b>Viscosity</b>	N/A
<b>Flammability</b>	Non-Flammable	<b>Specific Gravity</b>	1.115-1.211

## Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	Fairly stable in concentrations below 1%, stability decreases with concentration, heat, light exposure, decrease in pH, and contamination with heavy metals.
<b>Incompatibility</b>	Acids, acid salts, ammonia, organics, reducing agents, easily oxidizable materials and metals such as nickel, copper, tin, aluminum, and iron.
<b>Hazardous Polymerization</b>	Will not occur
<b>Hazardous Decomposition Products</b>	HOCl, Chlorine, HCl, NaCl, sodium chlorate, and oxygen depending on pH, temperature, and time.
<b>Conditions to Avoid</b>	Extreme heat, open flame, light exposure, reduced alkalinity and contamination.

## Section 11. Toxicological Information

<b>Routes of Entry</b>	Dermal, Oral, and Inhalation
<b>Symptoms</b>	Irritation to burns/serious damage
<b>Skin Irritant</b>	Yes
<b>Eye Irritant</b>	Yes
<b>Sensitizers</b>	Not determined
<b>Mutagenicity</b>	No information found
<b>Carcinogenicity</b>	None
<b>Reproductive Toxicity</b>	No information found
<b>Target Organs</b>	None

There is no toxicological data for this product as a whole. Based on relevant ingredients with known acute toxicity, the acute toxicity estimate using the additive formula (ATE) has been determined.

#### Acute Toxicity

Test	Results	Basis
Dermal	10,0063 mg/kg	ATE determined beyond Category 4
Oral	10,250 mg/kg	ATE determined beyond Category 4
Inhalation	No data	

### Section 12. Ecological Information

**Environmental Effects** No ecological toxicity known

### Section 13. Disposal Considerations

**Waste Information** Dispose of contaminated product and materials used in cleaning up spills or leaks in a manner approved for this material. Follow all Federal, State and Local regulations. Empty containers can have residues, gases and mists and are subject to proper waste disposal, as above.

### Section 14. Transportation Information

Regulatory Information	UN number	Proper Shipping Name	Classes	Packaging Group	Label Code
DOT Classification	UN1791	Hypochlorite Solution	8	PGIII	CORROSIVE

Note: DOT Classification applies to most packaging sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

### Section 15. Regulatory Information

**US Federal Regulations** The following substances are listed as a toxic chemical and are subject to report under the SARA act Section 313: None

The following substances have CERCLA reportable quantity values (in pounds):

<b>Sodium Hydroxide</b>	<b>1310-73-2</b>	<b>1,000</b>
<b>Sodium Hypochlorite</b>	<b>7681-52-9</b>	<b>100</b>

**State Regulations** None

### Section 16. Other Information

**Last Revision** 6/7/2017

The information contained herein is based on the data available to us and is believed to be accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. We assume no responsibility for injuries from the use of the product described herein.