

Safety Data Sheet



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Section 1. Chemical Product and Company Identification

Product Name K-San
Product Use Sodium Hypochlorite 5.25%
Product Code 7350
Date of Issue 6/16/2017
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 |
| STOT, single exposure | Category 2 |

Physical Hazards

| | |
|---------------------|------------|
| Corrosive to Metals | Category 1 |
| Oxidizing Liquid | Category 2 |

Environmental Hazards

| | |
|--------------------------|------------|
| Acute aquatic toxicity | Category 1 |
| Chronic aquatic toxicity | Category 1 |

Precautionary Statements:

| | |
|----------------|---|
| P210 | Keep away from heat, sparks, open flames and hot surfaces – no smoking |
| P220 | Keep away from combustible materials |
| P221 | Take any precaution to avoid mixing with combustibles |
| P234 | Keep in original container |
| P260 | Do not breathe in mist/vapors/spray/fumes |
| P264 | Wash hands thoroughly after handling |
| P270 | Do not eat, drink or smoke when handling product |
| P273 | Avoid release into environment |
| 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 |
| P370+P378 | In case of fire: Use water for extinction |
| P390 | Absorb spillage to prevent material damage |
| P391 | Collect spillage. Hazardous to aquatic life |
| P404 | Store in a closed container |
| P405 | Store locked up |
| P501 | Dispose of in accordance with all federal, state and local regulations |

Hazard Statements:

| | |
|------|--|
| H272 | May intensify fire; oxidizer |
| H290 | May be corrosive to metals |
| H314 | Causes severe skin burns and eye damage |
| H371 | May cause damage to organs |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

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 | 5.25 |
| Sodium Hydroxide | 1310-73-2 | <3 |

Section 4. First Aid Measures

| | |
|---------------------|--|
| Eye Contact | Flush immediately with clean water for at least 15 minutes. Seek immediate medical attention. |
| Skin Contact | 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. |
| Inhalation | Remove person to fresh air. Begin CPR if breathing has stopped, and seek medical attention immediately. |
| Ingestion | 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)



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

Section 6. Accidental Release Measures

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|-----------------------|---|
| Spill Clean Up | 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. |
|-----------------------|---|

Section 7. Handling and Storage

Handling and Storage

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.

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 ³ | 2mg/m ³ | | 2mg/m ³ |

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 suit

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

Section 9. Physical and Chemical Properties

| | | | |
|-------------------------|-----------------------------|------------------------------|-----------|
| Physical State | Liquid | Explosive Limits | N/A |
| Color | Clear yellow | Vapor Pressure | N/A |
| Odor | Strong chlorine bleach odor | Vapor Density | N/A |
| Odor Threshold | N/A | Relative Density | N/A |
| pH | 11-12.3 | Solubility | Complete |
| Freezing Point | N/A | Partition Coefficient | N/A |
| Boiling Point | 212-219°F | Auto-Ignition Temp. | N/A |
| Flash Point | Not combustible | Decomposition Temp. | N/A |
| Evaporation Rate | N/A | Viscosity | N/A |
| Flammability | Non-Flammable | Specific Gravity | 1.07-1.12 |

Section 10. Stability and Reactivity

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

Section 11. Toxicological Information

| | |
|------------------------------|---|
| Routes of Entry | Dermal, Oral, and Inhalation |
| Symptoms | Irritation to burns/serious damage |
| Skin Irritant | Yes |
| Eye Irritant | Yes |
| Sensitizers | Not determined |
| Mutagenicity | No information found |
| Carcinogenicity | None |
| Reproductive Toxicity | No information found |
| Target Organs | May cause damage to organs (category 2) |

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 | 22,222 mg/kg | ATE determined beyond Category 4 |
| Oral | 17,778 mg/kg | ATE determined beyond Category 4 |
| Inhalation | No data | |

Section 12. Ecological Information

Environmental Effects This product is very toxic to aquatic life. Dispose of properly (see section 6).

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):

| | | |
|----------------------------|------------------|--------------|
| Sodium Hydroxide | 1310-73-2 | 1,000 |
| Sodium Hypochlorite | 7681-52-9 | 100 |

State Regulations None

Section 16. Other Information

Last Revision 6/16/2017

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.