

# Material Safety Data Sheet

May be used to comply with  
OSHA's Hazard Communication Standard,  
29 CFR 1910.1200. Standard must be  
consulted for specific requirements

4-39

## U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 12-18-0072

IDENTITY (As Used on Label and List)

4-39 Bleach

*Note: Blank spaces are not permitted. If any item is not applicable, or no  
information is available, the space must be marked to indicate that.*

### Section I

Manufacturer's Name:

Kansas Correctional Industries

Emergency Telephone Number:

CHEMTREX 800-424-9300

Address (Number, Street, City, State and Zip Code):

Kansas Department of Corrections

Telephone Number for Information:

(913) 727-3249

P.O. Box 2

Date Prepared:

June 9, 2011

Lansing, KS 66043

Signature of Preparer (optional):

### Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Names)	OSHA PEL	ACGIH TLV	CAS	% Optional
Sodium Hypochlorite	N.E.	N.E.	7681-52-9	5.25
Sodium Hydroxide	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup> Ceiling	1310-73-2	0.4 - 1.2
Sodium Chloride	N.E.	N.E.	7647-14-5	5.0

(N.E. = Not Established)

### Section III – Physical/Chemical Characteristics

Boiling Point:	Decomposes product	Specific Gravity (H <sub>2</sub> O = 1):	1.14
Vapor Pressure (mm Hg.):	Of water and decomposition	Melting Point:	N.A.
Vapor Density (AIR = 1):	N.A.	Evaporation Rate (Butyl Acetate = 1):	N.A.
Solubility in Water:	Complete		
Appearance and Odor:	Light yellowish-green color liquid; chlorine odor		

### Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used):	Flammable Limits	LEL	UEL
N.A.	N.A.	N.A.	N.A.

**Extinguishing Media:** Water, foam and dry chemical extinguishing media may be used to neutralize fires involving this product.

**Special Fire Fighting Procedures:** Firefighters must wear self-contained breathing apparatus with full facepiece operated in pressure demand or positive pressure mode. Avoid allowing runoff from fire control to contaminate public waterways.

**Unusual Fire and Explosion Hazards:** Residue from burning of this material can be caustic. Ventilate when cleaning up fire residues. Dusts might form explosive mixtures with air.

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**Section V – Reactivity Data**

Stability:	Unstable <input type="checkbox"/>	Conditions to Avoid:
	Stable <input checked="" type="checkbox"/>	Stable below concentrations of 1%. Stability decreases with concentration, heat, light exposure, decrease in pH and contamination with heavy metals such as nickel, cobalt, copper and iron.

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Incompatibility (Materials to Avoid): Avoid heavy metals (act a catalysts), reducing agents, organics, ether amines, ammonium acetate, cellulose, ammonia, acids or acid pH.

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Hazardous Decomposition or Byproducts: Hypochlorous acid (HOLC), chlorine, hydrochloric acid. Composition depends upon temperature and decrease in pH. Additional decomposition products, which depend upon pH, temperature and time are sodium chloride, sodium chlorate and oxygen.

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Hazardous Polymerization:	May Occur <input type="checkbox"/>	Conditions to Avoid:
	Will Not Occur <input checked="" type="checkbox"/>	None

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**Section VI – Health Hazard Data**

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Possible
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**Health Hazards (Acute and Chronic):** EYES: May cause irritation. SKIN: Prolonged contact can cause irritation, defatting and dermatitis. INGESTION: Possible gastrointestinal disturbances if large amounts are ingested. INHALATION: May irritation nose, throat and lungs. Other than the possibility of mild irritation, there are no known chronic effects from use of this product in its normal, prescribed manner. Surfaces coated with soap are slippery and not safe for traffic.

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Carcinogenicity:	NTP? Not Listed	IARC Monographs? No	OSHA Regulated? No
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**Signs and Symptoms of Exposure:** EYES: Redness, irritation, continuous blinking. SKIN: Irritation, redness. INGESTION: Nausea. INHALATION: May irritate nose, throat and respiratory tract.

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**Medical Conditions Generally Aggravated by Exposure:** EYES: None generally recognized. SKIN: Any prior condition. INGESTION: None generally recognized. INHALATION: Asthma, emphysema, chronic bronchitis or heart conditions.

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**Emergency and First Aid Procedures:** EYE CONTACT: Remove contact lenses, if worn; flush with water for 15 minutes holding eyelid open. SKIN CONTACT: Flush with water while removing contaminated clothing and shoes. Follow by washing with soap and water. NO NOT reuse clothing or shoes until cleaned INGESTION: Drink a full glass of water and call a physician. INHALATION: Move victim to fresh air.

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**SECTION VII – Precautions for Safe Handling and Use**

**Steps to be Taken in Case Material is Released or Spilled:** To contain spill, DO NOT allow to enter sewers or streams. Flush with water to dilute as much as possible, avoid heat and contamination with acid materials. If using absorbent to soak up a small spill, avoid sawdust and other combustibles.

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**Waste Disposal Method:** Reduce by adding reducing agents such as bisulfate or ferrous salt solutions. Some heat will be produced. May neutralize with reducing agents. Keep on alkaline side and dilute. Rinse water should be handled by a licensed treatment facility. Solid waste is preferably incinerated.

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**Precautions to be Taken in Handling and Storage:** N.A.

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**Other Precautions:** This material may be toxic to aquatic life forms. Do not allow untreated material into public waterways.

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**Section VIII – Control Measures**

Respiratory Protection (Specify Type): None required.

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Ventilation:	Local Exhaust: Normal	Mechanical (General): Normal	Special: N.A.	Other: N.A.
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Protective Gloves: Rubber gloves	Eye Protection: Safety goggles
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Other Protective Clothing or Equipment: None required.

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Work/Hygienic Practices: Safety shower, eye bath and washing facilities should be available.

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While Kansas Correctional Industries believes that the data presented is accurate and in good faith; Kansas Correctional Industries makes no guarantees of the completeness or reliability of the information. This information and product are furnished on the assumption that the user will make their own determination regarding this product suitability for their uses and follows the guidelines of Federal, State and local regulations.

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