

KOK Bleach 5.25%

Safety Data Sheet

KOKSP51014
KOKSP51016

Section 1: Identification

Product Identification

Product Name: KOK Bleach 5.25%
KOK Product Number
Product Description: Sanitizer
Synonyms and Trade Names: Sodium Hypochlorite Solution
Additional Information:

Manufacturer Identification

Manufacturer Name: K-O-K Products, Inc.
Manufacturer Address: 700 S. 3B's & K Road, Galena, Ohio 43021
Manufacturer Daytime Telephone: 740-658-0526
24 Hour Emergency Contact: 800-424-9300

Distributor Identification

Distributor Name: K-O-K Products, Inc.
Distributor Address: 700 S. 3B's & K Road, Galena, Ohio 43021
Distributor Daytime Telephone: 740-658-0526

Section 2: Hazards Identification

Hazard Pictograms



Signal Word

Warning

Hazard Statements

Causes eye irritation (Category 2B)
Causes skin irritation (Category 2)
Harmful if swallowed (Category 4)

Precautionary Statements

Wear eye protection
Wash thoroughly after handling
Do not eat, drink, or smoke while using this product
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lens if present and easy to do. Continue rinsing. If eye irritation persists, seek medical attention
IF ON SKIN: Wash with plenty of water. If skin irritation occurs, seek medical attention.
IF SWALLOWED: Rinse mouth. Consult Physician if you feel unwell

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Section 3: Composition and Ingredient Information

CAS No.	Name	Percent
7732-18-5	Water	> 90
7681-52-9	Sodium hypochlorite	5.25
1310-73-2	Sodium hydroxide	< 1

Section 4: First Aid Measures

Description of Symptoms and First Aid Measures

Inhalation:

Acute: Inhalation of small amounts of mist may cause respiratory irritation. Inhalation of large quantities of mist may cause serious respiratory irritation.

If inhaled and symptoms develop, move person to fresh air and keep comfortable. Get medical advice/attention if symptoms persist.

Eye Contact:

*Acute: Irritation or burning sensation, redness, swelling and tearing
Prolonged Contact: May result in severe irritation*

Wash face and hands after handling. If in eyes, rinse cautiously with water for several minutes. Remove contact lens if present and easy to do. Continue rinsing.

If irritation persists, get medical attention

Skin Contact:

*Acute: Irritation, redness or swelling
Prolonged Contact: Irritation, redness, and swelling*

Wash face and hands after handling.

If skin irritation occurs, seek medical attention

Ingestion:

Acute: Ingestion of small amounts may cause gastrointestinal discomfort, nausea or diarrhea. Larger amounts may cause chemical burns to mouth, throat, and stomach.

Rinse mouth. Do not induce vomiting. Seek medical attention if you feel unwell

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Section 5: Fire Fighting Measures

Fire:	<i>Nonflammable</i>
Extinguishing Media:	<i>NA.</i>
Hazardous decomposition products formed under fire conditions	<i>Halogenated compounds</i>
Special Fire Fighting Precautions:	<i>If material is involved in a fire, avoid skin and eye contact, and wear self-contained breathing apparatus operating in pressure demand mode</i> <i>Cool fire-exposed containers with water spray.</i>
Unusual Fire Hazards:	<i>None</i>

Section 6: Accidental Release Measures

Personal Protection:	<i>Wear appropriate personal protective equipment. Avoid breathing dust.</i>
Small Spills:	<i>Small amounts may be flushed to sanitary sewer with copious amounts of water.</i> <i>Avoid discharge to storm sewers or waterways.</i>
Large Spills:	<i>Do not allow large amounts to enter sewers.</i> <i>Keep spill out of storm sewers and waterways.</i> <i>Contain and transfer to containers for disposal.</i> <i>Rinse area with water and flush to sanitary sewer.</i>
Special Considerations	<i>Avoid activities which generate mist during cleanup.</i> <i>Large quantities may be harmful to aquatic life.</i>
Notification:	<i>In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.</i>

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Section 7: Handling and Storage

Safe Handling: *Avoid contact with skin or eyes.
Wash after handling
Do not ingest. Wash hands before eating.
Do not breathe mist.
Mixing this product with acid or ammonia may result in the release of chlorine gas.
Use only with adequate ventilation*

Safe Storage: *Keep tightly capped when not in use.
Keep out of reach of children.
Store between -10 and 40°C.*

Section 8: Exposure Controls and Personal Protection

Exposure Limits

CAS No.	Name	Percent	Exposure Limits
7681-52-9	Sodium hypochlorite	5.25	STEL, 2 mg/m ³ AIHA (TLV)
1310-73-2	Sodium hydroxide	< 1	TWA, 20 ppm ACGIH (TLV) CEIL, 2 mg/m ³ ACGIH TWA, 2 mg/m ³ OSHA (PEL) CEIL, 2 mg/m ³ NIOSH (REL)

Exposure Controls

Engineering Controls *General ventilation should be sufficient for normal conditions.*

Protective Facilities *Washing Facilities*

Eye and Face Protection *Safety glasses with side shields under normal conditions.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH*

Skin and Hand Protection *Not normally required.

Wash and dry hands.*

Respiratory Protection *Respiratory protection is not required under normal circumstances.

Consult your industrial hygiene specialist for recommendations and limitations*

Hygiene Measures *Observe good industrial hygiene practices. Wash exposed areas after use and before eating, drinking, or use of tobacco.*

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Section 9: Physical and Chemical Properties

Appearance	
Physical State:	<i>Liquid</i>
Form:	<i>Liquid</i>
Color:	<i>Yellowish (Light)</i>
Odor:	<i>Chlorine</i>
Odor Threshold:	<i>NDA</i>
Taste:	<i>Burning</i>
pH:	<i>12.4 to 13.2</i>
Boiling Point (°F):	<i>>212</i>
Melting/Freezing Point (°F)	<i>NA</i>
Flash Point (°F):	<i>NA</i>
Upper Flammability Limit (%):	<i>NA</i>
Lower Flammability Limit (%):	<i>NA</i>
Autoignition (°F):	<i>NA</i>
Decomposition Temperature (°F)	<i>NA</i>
Vapor Pressure (mmHg)(°C):	<i>NA</i>
Vapor Density (air=1)	<i>NA</i>
Specific Gravity (water=1) (25°C)	<i>1.092</i>
Evaporation Rate (BuAc = 1):	<i>NDA</i>
Molecular Weight	<i>NA</i>
Viscosity (cp):	<i>1</i>
Partition coefficient n-octanol/water)	<i>NDA</i>
Solubility, Water (g/l)(°C):	<i>Complete</i>
Solubility, (other) (g/l)(°C):	<i>NDA</i>

NDA = No Data Available

NA = Not Applicable

Section 10: Stability and Reactivity

Chemical Stability:	<i>Stable</i>
Possible Hazardous Reactions:	
Corrosivity	<i>Slightly Corrosive</i>
Polymerization	<i>None</i>
Decomposition	<i>None</i>
Conditions to Avoid:	
Incompatible Materials:	<i>Acids: Violent reaction.</i> <i>Aluminum: Corrosive action.</i> <i>Amines: Form explosive chloramines.</i> <i>Ammonia: Form explosive chloramines.</i> <i>Ammonium salts: May form explosive product.</i> <i>Benzyl cyanide (acidified): Explosive reaction.</i> <i>Cellulose: Violent reaction</i> <i>Ethyleneimine: Forms explosive 1-chloroethyleneimine.</i> <i>Formic acid: Explosive mixture.</i> <i>Methanol: May form explosive compound.</i>

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Nitrogen compounds: Forms explosive N-chloro compounds.

Organic and combustible materials: Fire and explosion hazard.

Oxalic acid: Intense reaction

Mixing with acid or ammonia releases chlorine gas

Hazardous Decomposition Products:

Section 11: Toxicological Information

Likely Routes of Exposure

Inhalation:

Inhalation is not an expected hazard under normal conditions of use. If spraying, use appropriate respiratory protection

Ingestion:

Ingestion is not an expected hazard under normal conditions of use

Skin Contact/Absorption:

Causes skin irritation.

Eye Contact/Absorption:

Cause severe eye irritation

Pre-existing Conditions

Persons with asthma or other respiratory problems may be more effected via respiratory exposure.

Acute Toxicity

Test

Oral Toxicity (Rat)

Rating

Category 4

Result

5,000 mg/kg

Basis

Additivity

Dermal Toxicity (Rabbit)

Not Classified

> 10,000 mg/kg

Additivity

Inhalation Toxicity

Not Classified

Constituents

Dermal Irritation

Category 2

Constituents

Eye Irritation

Category 2B

Constituents

Chronic Toxicity

NTP Listed

Product:

Not listed

Specific Substance:

None listed

IARC Listed

Product:

Not listed

Specific Substance:

None listed

Proposition 65

Product:

Not listed

Specific Substance:

None listed

CAS

1310-73-2

Name

Sodium hydroxide

RTECS

WB4900000

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Section 12: Ecological Information

Impact: *This product has low environmental impact in small quantities. Larger releases may result in toxic effects on aquatic organisms.*

Acute Toxicity, Fish

Product:

NDA

Specific Substance

7681-52-9

LC50 – *Lepomis macrochirus* (Bluegill) – 2.1 mg/l – 24h

1310-73-2

LC50 - *Poecilia reticulata* (Guppy) - 209 mg/l - 24h

Acute Toxicity, Aquatic Invertebrates

Product:

NDA

Specific Substance:

7681-52-9

EC50 – *Daphnia magna* (Water Flea) – .071 mg/l – 48 h

1310-73-2

EC50 – *Daphnia magna* (Water flea) – 40 mg/l – 48h

Acute Toxicity, Microorganism

Product:

NDA

Specific Substance:

Toxicity, Aquatic Plants

Product:

NDA

Specific Substance:

Biodegradation

Product:

NDA

Specific Substance:

Bioaccumulation Potential

Product:

NDA

Specific Substance:

NDA = No Data Available

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Section 13: Disposal Information

General Information

Dispose of in accordance with local regulatory requirements.

Disposal Methods

Discharge, treatment, or disposal may be subject to national, state, or local laws.

Small amounts of material disposed of sanitary sewer. Larger quantities should be disposed of in accordance with local regulations.

Section 14: Transportation Information

DOT	UN1791
Shipping Name	Hypochlorite solution
Label	8
Packing Group	PGIII
Reportable Quantity	100 lbs

Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

Section 15: Regulatory Information

Chemical Inventory Status

Ingredient (CAS)	TSCA8(b)	EC	Japan	Australia	Canada DSL	NDSL
Sodium hypochlorite (7681-52-9)	X	X	X	X	X	
Sodium hydroxide (1310-73-2)	X	X	X	X	X	

Federal Regulations

Ingredient (CAS)	RCRA (261.33)	EPCRA/CERCLA 302 TPQ	304 RQ	313 Listed	CAA 112(r) TQ	TSCA 8(d)
Sodium hypochlorite (7681-52-9)			100			
Sodium hydroxide (1310-73-2)			1,000			

State RTK Label Information

Ingredient (CAS)	New Jersey	Pennsylvania	Massachusetts	Proposition 65
Sodium hypochlorite (7681-52-9)	X	X	X	
Sodium hydroxide (1310-73-2)	X	X	X	

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Other Regulations/Information

EPA

EPA Reg. No. 8154-1

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

WARNING

May be fatal if swallowed or if absorbed through skin.

Harmful if inhaled.

Causes skin irritation.

Causes substantial but temporary eye injury.

This pesticide is extremely toxic to fish

OSHA:

Irritant

VOC:

No

Chemical Weapons Convention:

No

WHMIS

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

Hazard Classification:

Class D2B – Skin and Eye Irritation

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HMIS

HMIS ratings involve data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered.

Health:	2
Fire:	0
Reactivity:	0
PPE:	B

NFPA

NFPA 704

Health:	2
Fire:	0
Reactivity:	0
Special Hazards:	

NDA = No Data Available

NA = Not Applicable

Section 16: Other Information

Disclaimer:

The information presented in this Safety Data Sheet was prepared by technical personnel, based on data that they believe, in their good faith judgment, is accurate. This information should be used to make an independent determination of the appropriate and necessary methods to safeguard workers and the environment, considering the specific conditions and methods of use that will be employed. This information is provided without warranty.