

Material Safety Data Sheet

Number: **DMN0021**

Product Name: **Bleach Concentrate**

Liquid sodium hypochlorite.

Revised: 12/19/05

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Alliance, OH 44601

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Section 2 - Composition / Information on Hazardous Ingredients

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>Carcinogen</u>
Sodium Hypochlorite	7681-52-9	15 - 17%	No

Section 3 - Hazards Identification

Emergency Overview: Concentrate is corrosive to all body parts, especially eyes. Diluted solutions may be irritating or corrosive depending on strength. Excessive inhalation of vapors may cause irritation. Product is water based, but can react with many substances creating heat and fire. May release toxic chlorine gas. Product has a high pH and large amounts should not be allowed into sewers (sanitary or storm) without neutralizing. A light yellow to green clear liquid with chlorine odor.

Health Hazards: Corrosive, Irritant

Physical Hazards: Reactive

Primary Routes of Entry: Through Skin Inhalation Ingestion

Potential Health Effects:

Eyes - concentrate and strong solutions cause eye damage. Milder solutions cause irritation and redness. Vapors may cause eye irritation.

Skin - prolonged contact with concentrate and strong solutions can cause skin damage and loss. There is little or no effect if rinsed off thoroughly right away. Milder solutions cause irritation only.

Swallowing - results in severe damage to mucous membranes, possible convulsion, coma and death.

Breathing - excessive inhalation of vapors can cause coughing and irritation of nose and throat. If chlorine gas is created it can result in severe irritation and death.

Section 4 - First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention immediately.

Skin Contact: With concentrate and strong solutions immediately flush exposed skin with running water for 15 minutes. Remove contaminated clothing and shoes immediately. With milder solutions remove contaminated clothing and wash exposed skin with soap and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse. If spilled concentrate or solutions of 1:10 or more are allowed to remain on clothing or in shoes, considerable damage to skin could occur over a period of time.

Inhalation: Move the affected person to fresh air. If the person is unconscious or irritation persists get medical attention.

Ingestion: If the affected person is conscious, give a glass of water or milk to drink. Induce vomiting by sticking a finger down victim's throat. Do not give acid antidotes or bicarbonate. Get medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: None. (ASTM D-56 closed cup).

Lower Explosive Limit: Not Applicable

Upper Explosive Limit: Not Applicable

Extinguishing Media: Any

Special Fire Fighting Procedures: Avoid inhalation of chlorine gas or fumes.

Unusual Fire And Explosion Hazards: Reacts with many substances causing heat, fire or explosions.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Very small spills may be cleaned up with a rag or mop. Larger spills should be diked to prevent spreading and then collected into clean pails or drums. Wear proper protective equipment and keep people out of the area.

Section 7 - Handling and Storage

Do not store at temperatures over 85° F. or below 32° F. Do not store near heat, acids, oxidizers or organics.

Store in vented containers or loosen container closure occasionally to vent pressure, more often in warm weather.

Empty containers retain product residue and may be hazardous. Observe all precautions given in this data sheet.

Do not mix with other cleaners, especially those containing ammonia or acids, because this could produce a dangerous gas (chlorine). If gas is accidentally produced in a toilet, immediately flush the toilet. If gas is accidentally produced in a bucket, immediately put the mixture down a drain with lots of running water if this is safely possible. A bucket could be carried outdoors. Immediately open windows if possible, and if gas is irritating to eyes or lungs, leave the immediate area of the accident. The smell of chlorine is not itself hazardous. If the smell is strong enough to cause any symptoms of irritation or nausea it is hazardous. Avoid prolonged breathing of even slight amounts of gas. In many cases evacuation of the building is NOT necessary unless a large quantity of gas was produced. However, any area where irritation occurs to occupants should be evacuated. Re-enter areas only when gas has dissipated or with proper protective equipment. If adequate ventilation is not available to dissipate the gas or more than a small amount of chemical was mixed call 911. Assistance is available through our 24 hour emergency 800 number. This paragraph is provided for your information only. Your facility should decide upon the appropriate emergency action plan for accidental release of chlorine as a part of your OSHA emergency preparedness plan. Contact Damon Industries if more information is needed.

Section 8 - Exposure Controls / Personal Protection

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>Percent</u>	<u>TWA(source)</u>	<u>STEL</u>	<u>Ceiling</u>
Sodium Hypochlorite	7681-52-9	15 - 17%	0.5 ppm(3,4)	1 ppm(3,4)	1 ppm(1)

The above limits are for chlorine gas.

(1)=OSHA (2)=NIOSH (3)=ACGIH (4)=CANADA TWA=8 hr Time Weighted Average STEL=15 minute TWA Ceiling=Instantaneous

Ventilation: Good room ventilation. Mechanical ventilation may be required in some cases.

Respiratory Protection: None when used as directed in a laundry. If the exposure limits will be exceeded or use causes irritation, wear a NIOSH approved respirator with a cartridge effective for chlorine. Use in enclosed, poorly ventilated spaces requires a respirator and may require self-contained breathing apparatus.

Gloves: Use rubber or latex gloves when mixing or using. Do not use disposable latex gloves with concentrate.

Eye Protection: Wear safety glasses with side shields or goggles.

Other Protective Equipment: An eyewash station should be located within 10 seconds travel time of concentrate use/mixing area. Wear a rubber or plastic apron when pouring or mixing to protect clothing from splattering.

Section 9 - Physical and Chemical Properties

Boiling Point: 222° F.

Specific Gravity: 1.2

Percent Volatiles: 80-90%

Solubility In Water: Complete

Appearance and Odor: A light yellow to green clear liquid with chlorine odor.

Vapor Pressure: Not Available

Vapor Density: > 1 (Air = 1)

Evaporation Rate: Same as water.

pH: concentrate 9 - 12

Section 10 - Stability and Reactivity

Incompatibility: Contact with acids will release toxic chlorine gas. Avoid contact with ammonia, oxidizing agents and organic compounds.

Hazardous Decomposition Products: Chlorine, hydrogen chloride and hypochlorous acid vapors.

Section 11 - Toxicological Information

Target Organs: None.

Section 12 - Ecological Information

Do not dispose of unusable product in the environment.

Section 13 - Disposal Considerations

Waste Disposal Method: Dispose of up to 1 quart of concentrate in the sanitary sewer with a large amount of water. Larger amounts must be disposed of in an approved landfill. Obey all local, state and federal regulations.

Section 14 - Transport Information

D.O.T. Hazard Class: Hypochlorite solutions, 8, UN1791, P.G. III

Section 15 - Regulatory Information

The components of this product are on the TSCA inventory of chemical substances.

Section 16 - Other Information

NFPA: H:2 F:0 I:2 **HMIS® III:** H:2 F:0 P:2 These ratings estimates are to be used only with a fully implemented training program in the workplace. NFPA® is a mark registered by the NFPA. HMIS® is a mark registered by the NPCA.

Replaces sheet dated 5/16/01. DOT packing group reduced to III, new NFPA/HMIS statement.

The information accumulated herein is believed to be accurate but is not warranted to be. Recipients are advised to confirm in advance that the information is current, applicable, and suitable to their circumstances.