



P.O. Box 195, Brownsburg, IN 46112
 Ph: 317-852-8966
Emergency Telephone No: 800-535-5053

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name or Chemical Name.....**73**
 Synonyms.....Cooling Tower Biocide
 Chemical Family.....Chlorine Solution
 NFPA – Health Hazard.....3
 Fire Hazard.....0
 Reactivity Hazard.....1
 NFPA Scale.....4=Extreme 3=High 2=Moderate 1=Slight 0=Insignificant

II. HAZARDOUS INGREDIENTS

<u>Chemical Name(s)</u>	<u>CAS Number</u>	<u>% Wt</u>	<u>TLV-TWA</u>	<u>PEL</u>	<u>SEC.313</u>	<u>Carcinogen?</u>
Sodium Hypochlorite	7681-52-9	15	NE	NE	No	No
Sodium Hydroxide	1310-73-2	<5	2 mg/m3	2 mg/m3	No	No

III. SHIPPING DATA

DOT Proper Shipping Name:.....Hypochlorite Solutions
 DOT Hazard Class.....Corrosive Material Class 8
 DOT Labels Required.....Corrosive
 UN/NA ID Number.....UN 1791
 Packaging Group.....III
 Non-Bulk Shipping Name.....Hypochlorite Solutions, 8, UN 1791, PG III
 Bulk Shipping Name.....Hypochlorite Solutions, 8, UN 1791, PG III, RQ
 (if 666 lbs or more in one package)

IV. PHYSICAL DATA

Boiling/Freezing Point @760 mmHg.....219°F (104°C)/ -11°F (-24°C)
 pH.....13.0
 Vapor Pressure mmHg @20°C.....ND
 Vapor Density (Air=1).....ND
 Percent Volatile by Weight (%).....90
 Specific Gravity @20°C.....1.22
 Solubility in Water.....Complete
 Evaporation Rate.....ND
 Appearance and Odor.....Yellow-green liquid with chlorine odor.

V. FIRE & EXPLOSION HAZARD DATA

Flash Point (Test Method).....N/A
 Autoignition Temperature.....N/A
 Flammability Limits in Air (% V).....N/A
 Extinguishing Media.....Not combustible
 Special Fire Fighting Procedures.....Wear self-contained breathing apparatus.
 Unusual Fire & Explosion Hazards.....Contact with combustibles may ignite or promote combustion.

VI. REACTIVITY DATA

Product Stability.....Stable
 Conditions to Avoid.....Temperatures above 80°F (27°C)
 Chemical Incompatibility.....Strong acids, oxidizable materials, reducing agents
 Hazardous Decomposition Products.....Chlorine, hypochlorous acid, hydrochloric acid; chlorine gas
 may be liberated when exposed to strong acids.
 Hazardous Polymerization.....Will not occur.



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VII. HEALTH HAZARD DATA

Skin ContactSevere irritant, may result in skin damage.
Eye ContactSevere irritant, corrosive to eye tissues upon contact.
InhalationVery irritating to mucous membranes.
IngestionCauses irritation and possible ulceration of gastrointestinal system.

VIII. EMERGENCY AND FIRST AID PROCEDURES

Skin.....Remove contaminated clothing and flush exposed skin with soap and water. If irritation persists or develops, get medical attention. Launder contaminated clothing before reuse.
Eyes.....Immediately flush eyes with large amounts of water for 15 minutes and get medical attention.
IngestionIf swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately. Never give anything by mouth to an unconscious person.
InhalationMove to fresh air. Aid in breathing, if necessary, and get medical attention.

IX. ENVIRONMENTAL DATA

Spill or Leak Procedures Avoid skin contact. Keep upwind. Neutralize with sodium bisulfite or ferrous salt solutions. Flood area with large amounts of water and flush to sanitary sewer. Do not discharge into waterways.
Waste Disposal..... Corrosive and pesticide. Dispose of in accordance with all federal, state and local regulations. Improper disposal of pesticide wastes is a violation of Federal law.
Hazardous Water 40CFR261..Yes. Hazardous Waste Number: D002. This product is an EPA registered pesticide. Contact the regional office of the EPA for guidance in proper disposal.
Container Disposal Empty containers may contain residuals. Thoroughly clean, then offer for recycling, reuse, or disposal in accordance with governmental regulations. See product label.

X. SPECIAL PROTECTION INFORMATION

Respiratory Protection NIOSH/MSHA approved can or cartridge respirator for gas and vapor as needed to maintain P.E.L.
Ventilation Local and/or mechanical exhaust to maintain exposure below P.E. L.
Protective Clothing Neoprene gloves, full chemical suit, boots – as necessary to prevent skin contact.
Eye Protection Chemical goggles and/or full face shield.
Other Precautions..... Safety shower and eyewash fountains should be easily accessible.

XI. SUPPLIER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of manufacturer. The data on this sheet relates only to the specific material designated herein. Manufacturer assumes no legal responsibility for use or reliance upon this data.

N/A = Not Available

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