

MATERIAL SAFETY DATA SHEET: BLEACH 12 POWDER      MSDS#201011B12  
CENTRAZ INDUSTRIES, INC. 4051 BINGHAM AVENUE      ST. LOUIS, MO 63116-3506  
ORIGINAL DATE: 03/10/07      LATEST UPDATE: 03/10/07

MATERIAL SAFETY DATA SHEET

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PRODUCT IDENTIFICATION: 2L.05      MSDS CODE NUMBER: 201011B12  
PRODUCT NAME: BLEACH 12 POWDER      ORIGINAL DATE: 03/10/07  
TRADE NAME: CHLORINATED BLEACH 12%      LATEST UPDATE: 03/10/07  
CHEMICAL FAMILY: Bleaching Compound      FORMULA: Proprietary

S.A.R.A. INFORMATION:

HAZARDS: Fire: Y Pressure: N Reactivity: Y Acute: Y Chronic: Y  
PHYSICAL DATA: Mixture: Y Pure: N Solid: Y Liquid: N Gas: N

SECTION I HAZARDOUS INGREDIENTS

MATERIAL	% BY WEIGHT	CAS #	OSHA PEL	ACGIH	TLV	STEL
Sodium Dichloro-S-Triazinetrone	12%	051580-860				
Dihydrate	available chlorine					

Sodium Dichloro-S-Triazinetrone is an EPA registered pesticide.

SECTION II HEALTH HAZARDS

TLV (Threshold Limit Value): See Section I

EYES: Contact with eyes may cause severe irritation and damage to the tissue. Corrosive. ACUTE OVEREXPOSURE - extreme irritant, cornea damage. CHRONIC OVEREXPOSURE - Eye damage.  
SKIN: Skin contact may cause irritation. Sodium Dichloro-S-Triazinetrone Dihydrate. Acute dermal LD (50) above 5000 mg/kg (rabbits).

INHALATION: Inhalation of dust may cause irritation to nose & throat. ACUTE OVEREXPOSURE - Extreme irritant. CHRONIC OVEREXPOSURE - Lung damage.

INGESTION: If ingested, product is moderately toxic. May cause irritation of mouth, throat, esophagus and stomach. For component: Sodium Dichloro-S-Triazinetrone Dihydrate. Acute oral LD (50): 735 mg/kg (rats).

SECTION III FIRST AID

EYES: Flush eyes thoroughly for at least 15 minutes. Call a physician.

SKIN: Flush area immediately with water. Remove contaminated clothing and shoes, launder clothing before reuse. If irritation persists, call a physician.

INHALATION: Remove person to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if breathing has stopped. Get medical attention.

INGESTION: If swallowed, feed milk followed by olive oil. Induce vomiting, if large amount has been ingested and patient is conscious, keep head below hips to prevent aspiration. Call a physician.

SECTION IV SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Under normal use conditions, a respirator should not be needed.

VENTILATION REQUIRED: Use in well ventilated area.

PROTECTIVE CLOTHING: EYES: Chemical safety glasses if eye contact is likely. SKIN: If skin contact is likely: Rubber gloves, Clothing to minimize skin contact. ADDITIONAL PROTECTIVE

MEASURES: Access to running water or eye wash/safety shower in work area.

SECTION V FIRE & EXPLOSION HAZARD DATA

FLASH POINT/FLAMMABLE LIMITS: N/A EXTINGUISHING MEDIA: Deluge with water.

SPECIAL FIRE FIGHTING PROCEDURES: Use NIOSH certified gas mask with canister for chlorine. If possible remove container to open air and flood with water. Damp or decomposing material may be shock sensitive. Tap container sharply with a pole from a distant/protected position prior to handling.

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UNUSUAL FIRE AND EXPLOSION HAZARDS: Decomposition products - chlorine, cyanogen chloride, carbon dioxide, ammonia, nitrogen trichloride.

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SECTION VI    PHYSICAL DATA

BOILING POINT: Decomposes at 175 - 246 DGR. C., if dry.  
SPECIFIC GRAVITY (WATER=1): N/A      POUNDS PER GALLON: N/A  
VAPOR PRESSURE (MM HG): Nil      VAPOR DENSITY (Air=1): N/A  
EVAPORATION RATE: Nil      % VOLATILE BY VOLUME: Nil  
SOLUBILITY IN WATER: Complete      pH: 1% SOLUTION 6.5 - 7.5  
APPEARANCE AND ODOR: Free flowing white powder / chlorine odor.

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SECTION VII    REACTIVITY DATA

PRODUCT IS: STABLE  
CONDITION TO AVOID: Open storage, excessive heat, moisture, moist air.  
INCOMPATIBILITY: Nitrogen compounds-ammonia, amines, ammonium compounds, reducing agents, oxidizable or combustible organics, strong oxidizers, acids, alkalis. HAZARDOUS DECOMPOSITION PRODUCTS: Chlorine, cyanogen chloride, nitrogen tri-chloride, ammonia, carbon dioxide. HAZARDOUS POLYMERIZATION: Will not occur.

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SECTION VIII    SPILL AND LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Sweep up material, place in disposal containers. If material is not contaminated, reuse. Flush area with plenty of water. Material is toxic to aquatic life. Major or bulk decompositions should be deluged with water and retained in a diked area and dechlorinate with a reducing agent. Neutralizing chemicals: Sodium Nitrite, Hydrogen Peroxide 5% Solution, Sodium Bisulfite, Sodium Thiosulfate. Before flushing residue and/or product into local sewer system, check pH of acceptable effluent water in accordance with local water treatment plant. WASTE DISPOSAL METHOD: Dispose of in accordance with local, state and federal regulations.

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SECTION IX    D.O.T. SHIPPING INFORMATION    FREIGHT CLASS: 55

PROPER SHIPPING NAME: Cleaning Compound, Solid, N.O.S.  
HAZARD CLASS: None    I.D. #: None    DOT WARNING LABEL: None

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SECTION X    ADDITIONAL INFORMATION:

KEEP OUT OF REACH OF CHILDREN. Do not store in food areas. Keep containers closed. Store in a cool, dry, well-ventilated area away from acids, alkalis, nitrites, and nitrates. Do not take internally. Wear appropriate protective clothing. Do not store near flammable, combustible, or other oxidizing materials.

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DATE ISSUED: 03/10/07      PREPARED BY: REGULATORY AFFAIRS

This supersedes any and all Material Safety Data Sheet issued prior to the above date. Please update your files with this most current sheet.