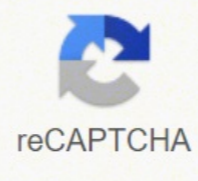




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Methylene chloride msds sheet

MSDS Material Safety Data Sheet

From: **Mallinckrodt Baker, Inc.**
222 Red School Lane
Phillipsburg, NJ 08865

J.T. Baker

MSDS information is available on our website at www.mallinckrodt.com

Fisher Scientific
Part of Thermo Fisher Scientific

MSDS information is available on our website at www.fisher.com

(545138)

ALLIED UNIVERSAL CORPORATION

Headquarters: 3901 NW 115th Avenue, Miami, Florida 33178 Phone: (305) 888-2623

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR § 1910.1200

TODAY'S DATE: 09/06/07 MSDS NUMBER: 0001

24 HOUR EMERGENCY CHEMICAL SPILL OR RELEASE PHONE NUMBER:
Allied Universal Corp. at 1-905-483-7732 (Digital Answer) and/or CHEMTREC at 1-800-424-9300

SECTION 1 CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Sodium Hypochlorite

Product Names: Aqua Guard Chlorinating Sanitizer, Aqua Guard Bleach, Liquid Chlorine Solution, Liquid Bleach, Hypochlorite, Hypo and Chlorine Bleach.
Listed Strengths: 10.5%, 12.5% and 15% CAS Number: 7681-52-9
Date MSDS Revised: August 2007 (previous revision 11/04)
Product Use: Disinfectant and sanitizer; see product label for all approved uses & instructions.
NSF Approval: Yes. Certified to NSF/ANSI Standard 60. Maximum use in Potable Water is 84 mg/L for 12.5% bleach and 100 mg/L for 15.0% bleach.
NSF Non-Food Compounds Approval: Yes

SECTION 2 HAZARD INGREDIENTS/IDENTITY INFORMATION

Hazardous Ingredients: % (w/w) as Sodium Hypochlorite: 10.5-15%
Exposure Standards: None established for Sodium Hypochlorite, as Chlorine exposure standards are:
PEL (OSHA): 1 ppm as Cl₂ STEL (OSHA): 3 ppm as Cl₂
TLV (ACGIH): 0.5 ppm as Cl₂ TWL (ACGIH): 0.3 ppm as Cl₂
WEEL (AHA): 2 mg/m³, 15 minute TWA as Cl₂ STEL (ACGIH): 1 ppm as Cl₂

SECTION 3 PHYSICAL/CHEMICAL CHARACTERISTICS

Chemical Name:	Sodium Hypochlorite
Chemical Family:	Oxidizing Agent
Molecular Formula:	Na-O-Cl
Form:	Liquid
Appearance:	Water clear to a slight greenish-yellow, or light yellow aqueous solution
Odor:	Chlorine odor
pH:	11-14, dependent upon % weight as Sodium Hypochlorite
Vapor Pressure:	Not available
Vapor Density (Air=1):	Not available
Boiling Point:	Approximately 200°F (110°C)
Freezing Point:	14°F (5°C) w/w Cl ₂ solution; 1°F (0°C) w/w Cl ₂ solution; -3°F (12°C) w/w Cl ₂ solution
Solubility (Water):	Completely Soluble
Solubility (Other):	Reacts with Many Organic Solvents
Density:	Approx. 10 lbs. per gallon
Evaporation Rate:	Not Available
Specific Gravity:	1.163 (10% w/w Cl ₂ solution); 1.163 (10% w/w Cl ₂ solution); 1.202 (12% w/w Cl ₂ solution); 1.25 (15% w/w Cl ₂ solution)
Molecular Weight:	74.5

SECTION 4 STABILITY & REACTIVITY DATA

Chemical Stability:	Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>
Incompatibility (Conditions to Avoid):	Stability decreases with heat and light exposure
Incompatibility (Materials to Avoid):	May react violently with strong acids. Other incompatibles include strong oxidants, ammonia, urea, reducing agents, organics, ether and oxidizable materials. Reaction with metals (nickel, iron, cobalt and copper) may produce oxygen gas, which supports combustion. May react with organohalogen compounds to

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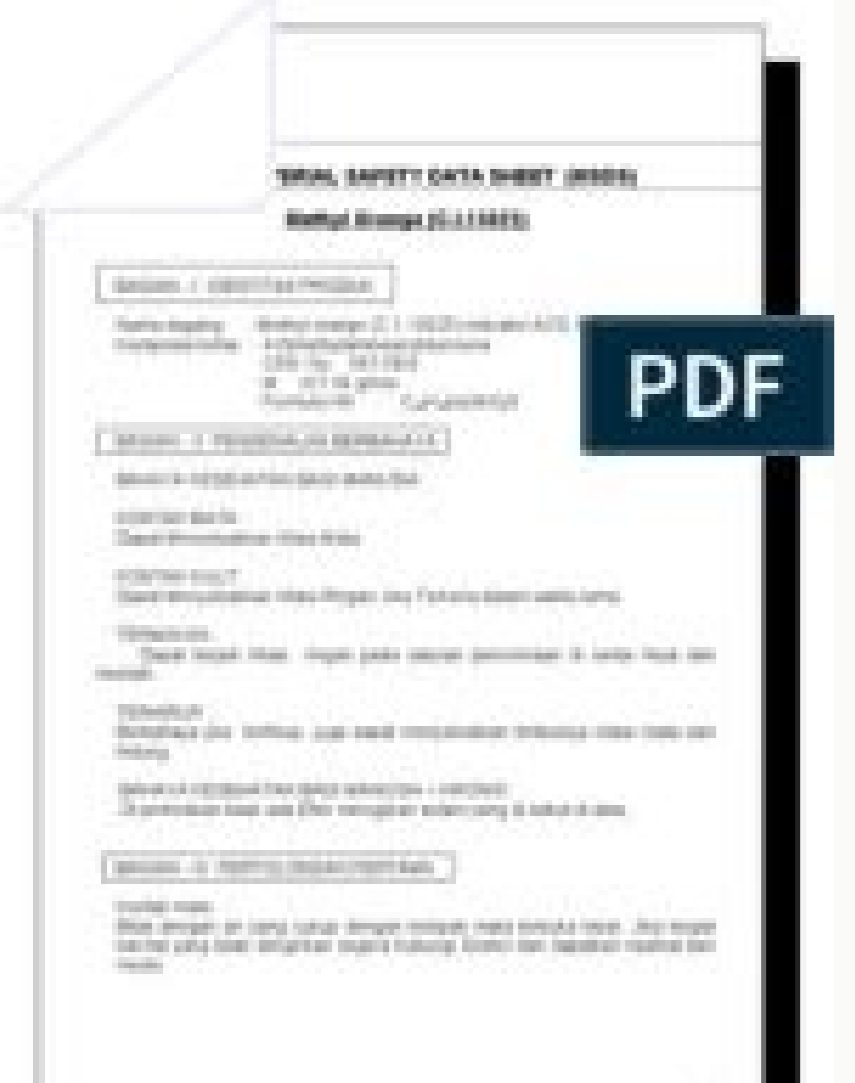
24 Hour Emergency Telephone: 908-859-2151
CHEMTREC: 1-800-424-9300

National Response in Canada
CANUTEC: 613-996-6666

Outside U.S. and Canada
Chemtree: 202-483-7818

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

All non-emergency questions should be directed to Customer Service (1-800-582-2537) for assistance.



MSDS tells workers what risks associated with chemical products and describes how employees can protect themselves with personal protecting equipment, or PPE. With about 250,000 sheets in your database, you can find the most common and best information in PDF format with ease. It has an impact on how work instructors show workers how to perform tasks, and ensures that managers understand the severity of a situation in the case of a spill or a worker to contact the dangerous material when not you use the appropriate protection equipment. The role of MSDS in transportation Couriers and conductors of all-terrain vehicles need to have access to MSDS in the case of spill of chemical products in transit and need to be cleaned or the vehicle is involved in an accident. SDS SEARCH has several plans of available prices, and it is possible to find a plan that suits your needs. 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