

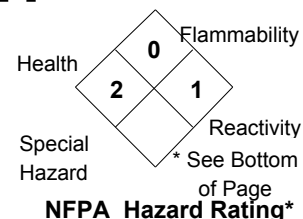
MATERIAL SAFETY DATA SHEET

Manufactured by:

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Anderson Chemical Company

325 SOUTH DAVIS AVENUE
LITCHFIELD, MINNESOTA 55355
(320) 693-2477



Product Name: **Protect**

24-HOUR EMERGENCY PHONE #: 1-800-424-9300 (CHEMTREC)

Revised: 8/23/2010 Imt
Supersedes: 3/22/2004

I. IDENTIFICATION

Chemical Name And Synonyms:

Not applicable

DOT Shipping Name

Compounds, Cleaning Liquid
(Sodium Hydroxide/Sodium Hypochlorite)

Chemical Family:

Chlorinated alkaline

DOT Hazard Class & I.D. Number

Corrosive Material NA1760

PG

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II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Sodium hydroxide	1310-73-2	<6.5	2 mg/M3	2 mg/M3	NA	Corrosive
Sodium hypochlorite	7681-52-9	3	NE	NE	NA	Corrosive / oxidizer
Trade Secret	TSRN 1800		NE	NE	NA	May cause eye irritation.
Trade Secret	TSRN 2398		NE	NE	NA	Slight eye irritant.
Trade Secret	TSRN 5890		NE	NE	NA	Irritant to skin, eyes, and respiratory tract.

**Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR §372).

NA: Not applicable
NE: Not established

III. PHYSICAL DATA

Boiling Point: Not established
Specific Gravity: 1.176
Appearance: Pale yellow, clear to slightly cloudy

Form: Liquid
Solubility In Water: Complete
Odor: Slight chlorine

pH, 1% Soln.: 11.8

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable

Extinguishing Media: Use media appropriate to surrounding fire.

Special Fire Fighting Procedures: Although this product is not combustible, if a fire occurs in the near vicinity, good firefighting practice dictates the use of self-contained breathing apparatus and other protective gear. Cool fire-exposed containers with water. Move fire exposed containers if it can be done without risk.

Unusual Fire And Explosion Hazards: If the stock solution container breaks, the solution should be handled with care as it is corrosive. Direct contact with water can cause a violent exothermic reaction. Highly exothermic reactions with organic or oxidizable materials may cause fires in adjacent, heat sensitive material.

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by NTP, IARC, and OSHA

Effects Of Over-exposure: Corrosive. Causes irritation (possibly severe), burns to the eyes. May cause permanent eye damage. Causes irritation (possibly severe), burns to the skin. Causes irritation (possibly severe), burns, pulmonary edema to the respiratory tract. Causes irritation (possibly severe), burns, nausea, vomiting to the gastrointestinal tract. The severity of effects depend on concentration and how soon after exposure the area is washed.

Emergency And First Aid Procedures: Eyes: Flush immediately with water for 15 minutes. Lift upper and lower eyelids for complete rinsing. Get immediate medical attention.

Skin: Flush with water for 15 minutes. If irritation persists after rinsing, get medical attention. Remove contaminated clothing and wash before reuse.

Ingestion: Rinse mouth with water. Give water to dilute. Do not induce vomiting. Get immediate medical attention. Never give anything by mouth to a semi-comatose, comatose, convulsing or unconscious person.

Inhalation: Remove victim from immediate source of exposure to fresh air. If breathing is difficult, administer oxygen if available. If victim is not breathing, administer CPR. If individual experiences nausea, headache, or dizziness, get immediate medical attention.

* NFPA/HMIS Degree or Hazard: 4 = Extreme; 3 = High; 2 = Moderate; 1 = Slight; 0 = Insignificant.

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HMIS A. Safety Glasses B. Safety Glasses, Gloves C. Safety Glasses, Gloves, Apron D. Face Shield, Gloves, Apron E. Safety Glasses, Gloves, Dust Respirator F. Safety Glasses, Gloves, Apron, Dust Respirator G. Safety Glasses, Gloves, Vapor Respirator H. Splash Goggles, Gloves, Apron, Vapor Respirator I. Safety Glasses, Gloves, Vapor and

VI. REACTIVITY DATA

Stability - Unstable:

Stable: x

Conditions To Avoid: Will react with some metals forming flammable hydrogen gas. Will react with acids to produce chlorine gas.

Incompatibility: Acids, ammonia, ether, halogenated compounds, oxidizing agents, reducing agents, oxidizable or combustible materials such as wood, cloth or organic materials, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys. Avoid contact with heavy metal such as iron, magnesium, aluminum, manganese, chromium, nickel and their alloys. Avoid contact with leather, wool, organic nitro compounds.
(Materials to Avoid)

Hazardous Decomposition Products: Toxic fumes of sodium oxide, HOCL, chlorine, HCl, NaCl, sodium chlorate and oxygen.

VII. SPILL OR LEAK PROCEDURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Evacuate nonessential personnel. Wear appropriate personal protection equipment. Completely contain spilled material with dikes or sandbags, etc., and prevent run-off into ground or surface waters or sewers. Recover as much material as possible into containers for disposal or reuse. Liquid may be removed with a vacuum truck. Remaining material may be diluted with water and neutralized; neutralize chlorine by adding sodium sulfite, or sodium thiosulfate; then neutralize alkalinity by adding a dilute acid. Flush spill area with water followed by a liberal covering of sodium bicarbonate. Neutralization products, both solid and liquid, must be recovered for disposal.

Waste Disposal Method: Dispose of in accordance with federal, state or local disposal authorities.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: Respiratory protection is not required for normal use. If mist level is high, wear NIOSH approved respirator. If eye irritation occurs, full face style mask should be used. When an air purifying respirator is not adequate use an SCBA.

Ventilation: Should be adequate to keep mist level below the TLV. Local exhaust where mist may be generated.

Protective Gloves: Natural rubber, neoprene or nitrile gloves should be worn.

Eye Protection: Safety glasses with side shields. Chemical goggles, face shield if appropriate.

Protective Clothing: If repeated or prolonged contact is anticipated, wear protective clothing appropriate to use conditions.

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wear protective clothing/equipment. Do not breathe vapors or mists. Use with adequate ventilation. Keep containers tightly closed and properly labeled. Containers that have been emptied will retain product residue and should be handled as if they were full. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas can be generated. Store in a cool, dry, well-ventilated place away from incompatible materials. Wash hands before eating, drinking, using tobacco, applying make-up or using the toilet. Do not store, use, and/or consume foods, beverages, tobacco in areas where this product is stored.

Other Precautions Safety shower and eyewash stations should be provided in the areas where this product is handled.

X. REVISED INFORMATION

MSDS Status: Review and update