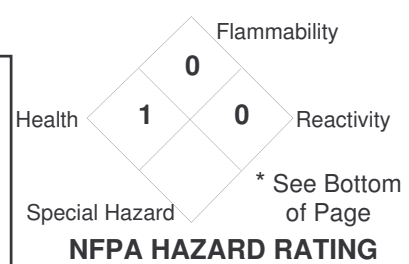


MATERIAL SAFETY DATA SHEET

101

Manufactured by:
ANDERSON Chemical Company
Litchfield, Minnesota 55355-1041
(320) 693-2477



Product Name: **Defend**

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

Revised: 12/3/2004 Int
Supersedes: 5/25/2001

I. IDENTIFICATION

Chemical Name And Synonyms:
Not applicable

DOT Shipping Name
Not applicable

Chemical Family:
Quaternary Ammonium Chloride

DOT Hazard Class & I.D. Number # PG
Not applicable

II. HAZARDOUS INGREDIENTS

Component	CAS NO.	%	TLV	PEL	Toxic	Hazard
Quat. Ammonium chloride		4.5	not est.	not est.	NA	Corrosive to eyes.

**Toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR NA: Not applicable

III. PHYSICAL DATA

Boiling Point: Above 212° F. **Form:** Liquid **pH, 1% Soln.:** 10.1-10.6
Specific Gravity: 1.042 **Solubility In Water:** Complete
Appearance: Clear, yellow liquid **Odor:** Marine

IV. FIRE AND EXPLOSION HAZARD DATA

Flashpoint: Not Applicable
Extinguishing Media: Water fog - carbon dioxide - dry chemical - "alcohol" foam.
Special Fire Fighting Procedures: Cool fire exposed drums with water spray. Wear approved self-contained breathing apparatus when fighting fire.
Unusual Fire And Explosion Hazards: Products of combustion are toxic

V. HEALTH HAZARD DATA

Carcinogenic: The raw materials used in this product are not considered to be a carcinogen by ACGIH and OSHA.
Effects Of Over-exposure: Corrosive. Causes severe eye and skin damage.

Emergency And First Aid Procedures:

EYES: Immediately wash with plenty of water for 15 minutes. Get medical attention.
SKIN: Wash thoroughly with water for 15 minutes. Remove and wash contaminated clothing before reuse.
INGESTION: Give large quantities of water. Call a physician immediately.

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

VI. REACTIVITY DATA

Stability - Unstable: Stable:

Conditions To Avoid: Not applicable

Incompatibility: Strong oxidizing agents.
(Materials To Avoid)

Hazardous Decomposition Products: Thermal decomposition - oxides of carbon and nitrogen, highly toxic hydrogen chloride fumes.

VII. SPILL OR LEAK PROCEDURES

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

Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid to container for recovery or disposal. Keep spill out of sewer and open bodies of water.

Waste Disposal Method: Landfill contaminated diking material according to current local, state and federal regulations.

VIII. SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required if adequate ventilation is maintained.

Ventilation: Adequate

Protective Gloves: Rubber

Eye Protection: Safety goggles.

Protective Clothing: Rubber apron

IX. SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing:

Store containers in dry, cool, well ventilated areas.

Other Precautions: Safety showers and eyewash stations should be available in storage and handling areas.

X. REVISED INFORMATION

MSDS Status: pH change