

# MATERIAL SAFETY DATA SHEET

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REVISION DATE: ..... 01/24/00

DATE PRINTED: ..... 12/14/06

PRODUCT NUMBER: ..... D0840XXX

CONTROL NUMBER: ..... D0840XXX

For chemical emergency information regarding this product, call Chem-Tel at 1-800-255-3924 anytime.

## SECTION I - IDENTIFICATION

PRODUCT NAME: **Defend**

PRODUCT TYPE: ..... Alkaline liquid cleaning compound

## SECTION II - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PEL	PERCENT
Water	7732-18-5	No limits established	<b>Not Listed</b>
Tetrapotassium Pyrophosphate	7320-34-5	No limits established	
Surfactant Blend	Mixture	No limits established	
Potassium Hydroxide	1310-58-3	2 mg/m3 ceiling	
Sodium Hypochlorite	7681-52-9	No limits established	

## SECTION III - PHYSICAL DATA

APPEARANCE: Transparent liquid, with a chlorine bleach odor.

BOILING POINT: 210 degrees F.

VAPOR DENSITY: Greater than 1.

PH: 14.0

VAPOR PRESSURE: N/A

SPECIFIC GRAVITY: 1.1

SOLUBILITY IN WATER: Completely soluble.

## SECTION IV - FIRE AND EXPLOSION DATA

FLASHPOINT: ..... This product is non-flammable.

EXTINGUISHING MEDIA: ..... This product is non-flammable. Use extinguishing media suitable for materials already burning.

SPECIAL FIRE FIGHTING PROCEDURES: ..... Firefighters working in areas where this product is present should be equipped with an approved, fully enclosed SCBA .

UNUSUAL FIRE AND EXPLOSION HAZARDS: ..... None known.

## SECTION V - REACTIVITY DATA

STABILITY: ..... Stable under normal conditions.

HAZARDOUS POLYMERIZATION: ..... This product not known to polymerize.

INCOMPATIBILITY: ..... Do not mix with acids or other detergents.

HAZARDOUS BYPRODUCTS: ..... Reaction with metals may liberate hydrogen chloride or hydrogen gas.

## SECTION VI - HEALTH DATA

ROUTE(S) OF ENTRY: ..... Inhalation, skin absorption, or ingestion.

LISTED CARCINOGEN: ..... Not listed by IARC, NTP or OSHA.

MEDICAL CONDITION AGGRAVATED: ..... May aggravate pre-existing dermatitis.

INHALATION: ..... Not likely to be inhaled in hazardous amounts. Avoid exposure to mists or vapors. Maintain adequate ventilation in the work area.

INGESTION: ..... This material can cause burns and serious damage to any exposed body parts.

EYES: ..... Undiluted product will cause burns or eye irritation, or possibly blindness.

SKIN (DERMAL): ..... This product may cause burns or irritation if not removed from the skin.

## SECTION VII FIRST AID

BREATHING (INHALATION): ..... If victim shows signs of discomfort or irritation, remove to fresh air. If symptoms persist, get immediate medical attention.

SWALLOWING (INGESTION): ..... DO NOT INDUCE VOMITING! Drink a large quantity of water or milk. Do not attempt to give liquids to an unconscious person. Get immediate medical attention!

EYES: ..... Flush eyes with a large quantity of fresh water for at least 15 minutes. If irritation persists, consult a physician.

SKIN (DERMAL): ..... Flush from skin and clothing with large amounts of fresh water. If irritation persists, consult physician. Wash contaminated clothing before wearing.

## SECTION VIII EMPLOYEE PROTECTION

RESPIRATORY PROTECTION: ..... Not usually needed in well ventilated areas. If needed, use an OSHA approved respirator.

PROTECTIVE CLOTHING: ..... Nitrile or PVC gloves, and chemical splash goggles. Wear protective outerwear and boots when product is likely to splash.

ADDITIONAL MEASURES: ..... Do not place this product in an unmarked container! Keep away from children! Spilled material is slippery.

## SECTION IX - SPILL AND DISPOSAL DATA

SPILL: ..... Dike to prevent spillage into streams or sewer systems. Consult local, state and federal authorities.

WASTE DISPOSAL: ..... As recommended by local, state and federal authorities.

HANDLING & STORAGE PRECAUTIONS: ..... Store in a cool, well ventilated area. Avoid overheating or freezing.

## SECTION X - OTHER REGULATORY INFORMATION

PROPER SHIPPING NAME: Compounds, Cleaning,  
Liquid

NFPA HEALTH: 3

CONSTITUENT: Potassium Hydroxide

NFPA FLAMMABILITY: 0

HAZARD CLASS AND LABEL: 8 Corrosive

NFPA REACTIVITY: 0

ID NUMBER: NA 1760

NFPA OTHER: Alkali

PACKING GROUP: III

## SECTION XI - PRECAUTIONARY STATEMENTS

WARNING: ..... The information contained in this MSDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safe-read this product safety information and pass it on to all persons who may be exposed to this product. Federal law requires it.