

# MATERIAL SAFETY DATA SHEET

Identity: De-fend Detergent/Disinfectant Concentrate, 4 oz.				
<b>Section I - Manufacturer Information</b>				
Manufacturer: Fendall Company		Emergency Telephone: 708-577-7400		
Address: 5 East College Drive Arlington Heights, IL 60004		Information Telephone: 800-543-4842		
		Date Prepared: 05/15/95		
<b>Section II - Hazardous Ingredients/Identify Information</b>				
Hazardous Components (Specific Chemical Identity; Common Name(s))		OSHA PEL	ACGIH TLV	Other limits recommended
N-ALKYLDIMETHYLBENZYLAMMONIUMCHLORIDES CAS#8691-01-5		NONE	NONE	N/A
N-ALKYLDIMETHYLETHYLBENZYLAMMONIUMCHLORIDES CAS#8691-01-6		NONE	NONE	N/A
<b>Section III - Physical/Chemical Characteristics</b>				
Boiling Point: 212° F (100° C)		Specific Gravity (H <sub>2</sub> O)=1: 1.04		
Vapor Pressure (mm Hg.): No Data		Melting Point: No Data		
Vapor Density (Air=1): No Data		Evaporation Rate (Butyl Acetate = 1): No Data		
Solubility in Water: 100%				
Appearance and Odor: CLEAR WATER-WHITE LIQUID LEMON SCENTED.				
<b>Section IV - Fire and Explosion Hazard Data</b>				
Flash Point (Method Used): NONE TO BOILING POINT		Flammable Limits: No Data	LEL: No Data	UEL: No Data
Extinguishing Media: PRODUCT DOES NOT READILY SUPPORT COMBUSTION. USE MEDIA APPROPRIATE FOR FUEL SOURCE				
Special Fire Fighting Procedures: KEEP EXPOSED CONTAINERS COOL TO PREVENT MELTING. RETAIN RUNOFF TO PREVENT ENTRY INTO SEWERS OR PUBLIC WATERCOURSES. WEAR SCBA IN CHEMICAL FIRES				
Unusual Fire and Explosion Hazards: NONE KNOWN				
<b>Section V - Reactivity Data</b>				
Stability	Unstable: NO		Conditions to Avoid: EXTREME HEAT OR COLD (TEMPERATURES UNDER 50° F OR OVER 120° F)	
	Stable: YES			
Incompatibility (Materials to Avoid): STRONG ACIDS AND OXIDIZERS				
Hazardous Decomposition or Byproducts: CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN				
Hazardous Polymerization	May Occur: NO		Conditions to Avoid: NONE KNOWN	
	Will Not Occur: YES			
<b>Section VI - Health Hazard Data</b>				
Route(s) of Entry: Inhalation? NO Skin? YES Ingestion? YES Eyes? YES				
Health Hazards (Acute and Chronic): DANGER. CORROSIVE. CAUSES SEVERE EYE AND SKIN DAMAGE. HARMFUL OR FATAL IF SWALLOWED. REPEATED OR PROLONGED DIRECT SKIN CONTACT MAY CAUSE DERMATITIS. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES WHEN USING THIS PRODUCT.				
Carcinogenicity: NTP? NO IARC Monographs? NO OSHA Regulated? NO				
Signs and Symptoms of Exposure: REDNESS, TEARING, OR BURNING IN EYES. REDNESS, BURNING, GENERAL IRRITATION, OR SLICK FEELING ON SKIN. IRRITATION OF THROAT OR STOMACH IF SWALLOWED.				
Medical Conditions Generally Aggravated by Exposure: PRE-EXISTING SKIN DISORDERS MAY BE ADVERSELY AFFECTED.				
Emergency First Aid Procedures: EYE CONTACT: FLUSH EYES WITH EYEWASH SOLUTION OR WATER FOR AT LEAST 15 MINUTES. CALL PHYSICIAN IMMEDIATELY. SKIN: FLUSH WITH PLENTY OF WATER AT LEAST 15 MINUTES. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: DRINK EGG WHITES, GELATIN SOLUTION OR LARGE QUANTITIES OF WATER. AVOID ALCOHOL. CALL PHYSICIAN IMMEDIATELY.				
<b>Section VII - Precautions for Safe Handling and Use</b>				
Steps to Be Taken in Case Material is Released or Spilled: CAUTION, SLIP HAZARD. FOR A SMALL SPILL WIPE UP WITH CLOTH OR OTHER ABSORBENT MATERIAL. FOR LARGE SPILLS, ISOLATE AND VENTILATE THE AREA. DIKE TO PREVENT SPREAD AND ENTRY INTO SEWERS, STORM DRAINS, ETC. WEAR PROTECTIVE GEAR AS NEEDED. PICK UP ON ABSORBENT MATERIAL OR VACUUM UP. PUT IN SUITABLE CONTAINER FOR PROPER DISPOSAL.				
Waste Disposal Method: CONSULT LOCAL STATE AND FEDERAL REGULATIONS. DISPOSE OF PROPERLY. SEE LABEL FOR SPECIFIC INSTRUCTIONS.				
Precautions to Be Taken in Handling and Storing: STORE IN A DRY AREA BETWEEN 50°F TO 120°F. DO NOT CONTAMINATE WATER, FOOD OR FOODSTUFFS BY USE OR STORAGE. AVOID SKIN AND EYE CONTACT. DO NOT INGEST. WASH THOROUGHLY AFTER HANDLING.				
Other Precautions: FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE.				
<b>Section VIII - Control Measures</b>				
Respiratory Protection: NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION.				
Ventilation	Local Exhaust: NOT USUALLY NECESSARY		Special: N/A	
	Mechanical: ADEQUATE VENTILATION		Other: N/A	
Protective Gloves: YES - IMPERVIOUS RUBBER		Eye Protection: YES - GOGGLES OR FACE SHIELD		
Other Protective Clothing: AS NEEDED TO PREVENT DIRECT BODY CONTACT.				
Work Hygienic Practices: ALWAYS FOLLOW SAFE WORK PRACTICES. WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, SMOKING, USING RESTROOMS, ETC.				