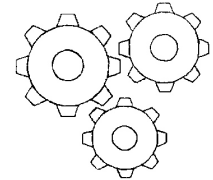




# TECHNICAL DATA SHEET

## INSTITUTIONAL AD2000

**DESCRIPTION:** All purpose liquid detergent. Contains a scientific blend of detergents and non flammable solvent. Quickly penetrates dirt, grease, grime. Holds them in suspension for easy removal. No toxic fumes.



### Advantages:

Non flammable. No phosphates.

Easy to use. Apply by spraying, wiping, brushing, or dipping. Can be used with automatic scrubbing machines, pressure or steam washer.

Versatile — Use on concrete, terrazzo, wood, marble, linoleum, vinyl, asphalt, rubber floors, etc. For heavy duty degreasing and cleaning of air filters, ovens, oily equipment, and wash basins. For removing built-up soap film and scum from shower areas and swimming pools. Use in general cleaning and degreasing of conveyors, airplanes, engines, machinery, metal, brick, etc.

### Specifications:

Physical Form	Clear Liquid
Color	Purple
Scent	Butyl
Specific Gravity	1.03
Density	8.60 lbs. per gallon
Foam Test 2% Solution	Initial — 115mm 5 minutes — 70mm
pH 2%	11.58
Active Alkalinity	1.51%
Total Alkalinity	1.78%
Total Solids	8.37%

### Directions:

Uses and Dilutions—	
Floors: General Cleaning	1:20
Wax Removal	1:10
Heavy Soil Removal	1:15
Air Filters, Ovens	1: 5
Showers, Washrooms, Fixtures	1:10
Conveyors, Engines, Metals, Machinery	1: 5
Garbage Cans, Flue & Ducts	1:10
Lighting Fixtures	1:10
Whitewall Tires, Motors (external)	1: 5

The following is sufficiently accurate:

1 to 20—	6 fl. oz. per gallon water
1 to 10—	12 fl. oz. per gallon water
1 to 5—	24 fl. oz. per gallon water

Soaking is important if the stain, dirt, oil, grease is caked on the surface. Any vertical surfaces should be washed bottom to top and should not be allowed to dry between washing and rinsing. *Do not allow to dry on glass.*

Do not use on painted surfaces except at 10 to 1 dilution or greater. Always rinse with water after use. Directions are flexible rather than specific.

In many cases, a more dilutable solution is sufficient. Use heavier concentrate for extreme conditions.

### CAUTION

**KEEP OUT OF REACH OF CHILDREN**

### Shipping Weight in pounds:

Case 6 Plastic Gallons	53.9 pounds
5 Gallon Plastic Pail	47.1 pounds



# MATERIAL SAFETY DATA SHEET

Prepared According to 29 CFR 1910, 1200

N/A (Not Applicable) N/E (Not Established)

## SECTION I - PRODUCT IDENTIFICATION

**PRODUCT NAME:** Institutional AD2000  
**GENERIC NAME:** Industrial Cleaner

**CHEMICAL FAMILY:** Liquid Mixture  
**PROPER SHIPPING NAME:** Not regulated

## HMIS HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH \_\_\_\_\_ 2  
FLAMMABILITY \_\_\_\_\_ 0  
REACTIVITY \_\_\_\_\_ 0  
PERSONAL PROTECTION \_\_\_\_\_ B

## HAZARD RATING

4 = EXTREME  
3 = HIGH  
2 = MODERATE  
1 = SLIGHT  
0 = INSIGNIFICANT

## SECTION II - HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS#	TLV	% WT (OPT)
*Ethylene glycol monobutyl ether	111-76-2	25ppm	<10%
Nitrilo triacetic acid	139-13-9	N/E	< 5%

\*Notification of this chemical is required by SARA III Section 313.  
You may be required to report this chemical accordingly.

## SECTION IV - SPECIAL PROTECTIVE EQUIPMENT

**RESPIRATORY PROTECTION:** None generally required  
**PROTECTIVE GLOVES:** Impervious  
**EYE PROTECTION:** Safety glasses recommended  
**VENTILATION:** Room ventilation is normally adequate  
**OTHER PROTECTIVE EQUIPMENT:** Sufficient to prevent skin contact.  
Eyewash and shower located near the workplace.

## SECTION VI - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (METHOD USED):** Non flammable  
**UPPER EXPLOSIVE LIMIT:** N/A **LOWER EXPLOSIVE LIMIT:** N/A  
**EXTINGUISHING MEDIA:** Use the appropriate extinguishing media for the surrounding fire  
**SPECIAL FIRE FIGHTING PROCEDURES:** Self contained breathing apparatus and full protective clothing should be worn when fighting fires involving chemicals.  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

## SECTION VII - FIRST AID

**EYES:** Flush with water for at least 15 minutes, be sure to keep eyelids opened. Get immediate medical attention if irritation persists.

**SKIN:** Wash with plenty of soap and water. Wash contaminated clothing before wearing. Get medical attention if irritation persists.

**INGESTION:** Give milk or water to dilute. DO NOT INDUCE VOMITING. Get immediate medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**INHALATION:** Remove victim to fresh air. If person is having difficulty in breathing, perform artificial respiration and get immediate medical attention.

## SECTION IX - STORAGE AND HANDLING

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid extremes in temperatures. Use common sense and sound industrial hygiene practices when handling this material as well as any other materials. Keep container closed when not in use. Wash hands after handling. Keep out of reach of children. Wear appropriate personal protection to avoid eye and skin contact.

Manufactured By: WARSAW CHEMICAL CO., INC.  
390 ARGONNE ROAD, P.O. BOX 858  
WARSAW, IN 46581  
574-267-3251 FAX 574-267-3884

## SECTION X - SPILL OR LEAK PROCEDURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear necessary personal protective equipment. Evacuate all unnecessary personnel. Dike area to prevent spreading of the spilled material. Cover with an inert absorbent (sand, clay, etc.), shovel into appropriate containers, and dispose of in accordance with federal, state, and local regulations.

**EMPTY CONTAINERS DISPOSAL:** Any disposal practices must be in compliance with federal, state and local laws. Any questions regarding disposal should be directed to the proper government agency.

## SECTION III - PHYSICAL DATA

**PHYSICAL DESCRIPTION:** Clear purple liquid, Butyl Odor  
**BOILING RANGE (°F):** 195 ± 210°F  
**VAPOR PRESSURE:** N/E  
**% VOLATILE:** 10%  
**SOLUBILITY IN WATER:** Complete  
**SPECIFIC GRAVITY:** 1.03 ± .01  
**EVAPORATION RATE:** N/E  
**pH:** 11.58

## SECTION V - REACTIVITY DATA

**STABILITY:** Stable  
**INCOMPATIBILITY (Materials to Avoid):** Strong acids and oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**HAZARDOUS POLYMERIZATION:** Will not occur

## SECTION VIII - HEALTH HAZARDS

### EFFECTS OF OVEREXPOSURE (Primary Route of Entry)

**SKIN:** Irritant  
**EYES:** Irritant  
**INHALATION:** Irritant

**CARCINOGENS:** Nitrilotriacetic Acid  
139-13-9

**NTP:** **OSHA:** **IARC:** **ACGIH:**  
**OTHER:** California Prop. 65