



AQUA Sorb® is a solid, granular cross-linked sodium polyacrylate *Advanced Superabsorbent Polymer* that rapidly absorbs & retains large volumes of aqueous solutions, converting them into a semi-solid, gelled state.

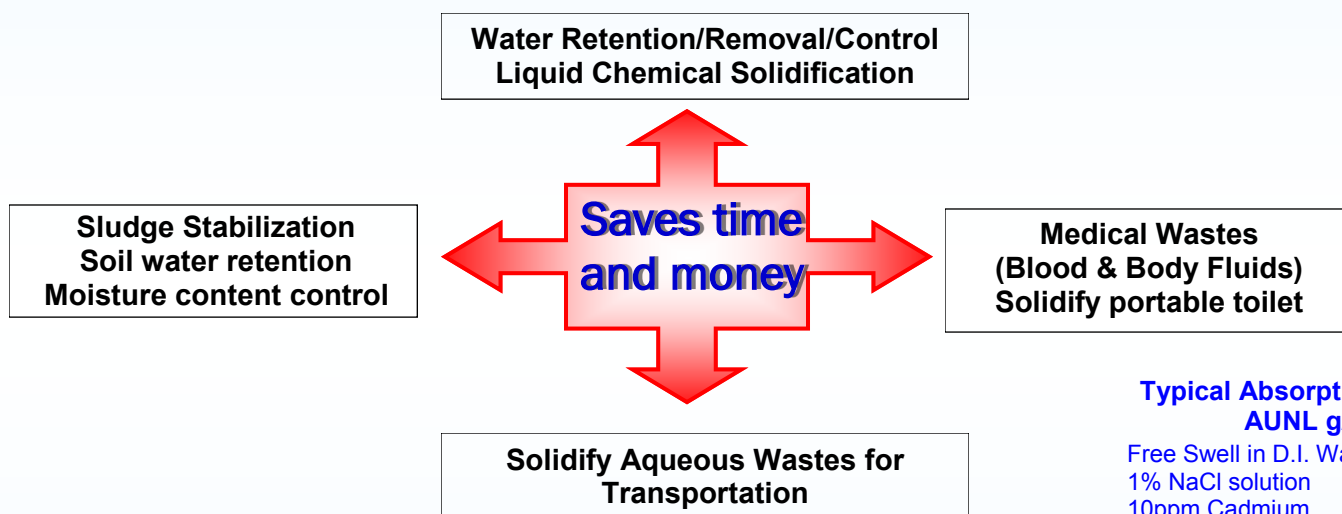
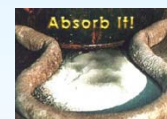
Superior absorbing polymer

The absorptive properties of **AQUA Sorb®** are ideally suited for the absorption & solidification of industrial waste streams containing inks, heavy metals and other general contaminants.

AQUA Sorb® is a remarkable, yet economical tool for spill management, containment, clean up and disposal.

AQUA Sorb® :

- ☑ Is Non-Toxic, Non-Hazardous; does not produce heat or off-gasses.
- ☑ Meets and exceeds EPA, OSHA, & ANSI Guidelines for absorbent material performances
- ☑ Passes the Paint Filter Liquid Test (Method 9095)
- ☑ Non-Biodegradable polymer (Per 40 CFR 264.314 (e) (1) (ii))
- ☑ Expands by less than 1% when hydrated
- ☑ SEG certified incinerable material with heat value of 5560 BTU/lbs.
- ☑ Strong ion exchange capability allows for heavy metals to be bound & waters to pass TCLP
- ☑ Absorbs over 300 times its weight in water
- ☑ Freeze-Thaw Tested - will not release liquids after freezing and subsequent heating to 160° F
- ☑ Produces over 5,000 BTU's per pound when incinerated
- ☑ Solidifies most aqueous solutions in less than 2 minutes—does not require mixing.



**Typical Absorption Ratios
AUNL g/g**

Free Swell in D.I. Water	200
1% NaCl solution	42
10ppm Cadmium	142
30ppm Cadmium	47
10ppm Chromium	130
30ppm Chromium	104
10ppm Lead	137
30ppm Lead	110

POSSIBLE USES FOR AQUA SORB:

- Autopsy Absorbents** – stops/cleans up leakage of body fluids - autopsy, funeral homes, hospitals, etc.
- Baby and Adult Diapers** - an estimated 2 billion pounds per year in the U.S. alone
- Bait and Gaming Gels** - holds scent and soluble baits in traps - trap baits, etc.
- Body Cooling Gels for Apparel** - bandanas, headbands, wrist bands - work, sports, etc.
- Body fluids absorption** – eliminates odors, reduces possibility of airborne pathogens, vapor suppression, first responders, medical cleaning staff, school janitorial, etc.
- Cleaning Gels** - holds cleaner on vertical services - rust removers, cleaning agents, etc.
- Fragrance Gels** - reduces evaporation, acts to time release - deodorizers, etc.
- Fire Fighting Gel** - keeps water on the fire surface - forest fires, fire breaks, structure coating, etc.
- Floral Arrangements** - holds water to keep from spilling during deliveries, also allows for slow evaporation of water, keeping flowers hydrated for longer periods of time.
- Hazardous Waste Control** – stabilization and solidification of commercial wastewater, decontamination water, spilled chemicals and pesticides – first responders, waste management personnel, etc.
- Heat Packs** - for ease and control of heat pads - body heat packs, food, etc.
- Ice Packs** - keeps water colder for longer periods - fish, flowers, food, etc.
- Kitty Litter Additive** - holds it plus reduces odors.
- Medical Waste Absorbents** – stabilizes and cleans up leakage of body fluids, reducing spread of germs; vapor suppression: blood, urine, vomit, etc. at hospitals, portable toilets, public transportation, school buses, scientific laboratories, etc.
- Oil/Water Separation** - removes water from fuel tanks, filters - farm tractors, trucking, boating, etc.
- Pesticide Gels** - makes liquids manageable and remains effective for a much long period of time - spider control in rafters, termites, etc.
- Sludgewater treatment** - gels sludge water for stabilization or solid waste disposal - industry, water treatment, etc.
- Solidify Liquid Wastes** - gel liquids for solid waste disposal - industry, bio-medical, etc.
- Soil hydration** - blend into soil to increase water retention and slow the release of moisture in soil, reduces erosion — environmental, farming industries, etc.
- Spill Control** - picks up any aqueous liquid spills quickly; vapor suppression, solidifies aqueous chemicals for safer transportation, reduces risks for secondary contamination, etc. – hazmat teams, lawn spray companies, manufacturing companies, transportation companies, etc.

Section 1: Manufacturer Information



The ARK Enterprises, Inc.
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Prepared: June 1, 2000

Section 2: Physical/Chemical Characteristics

Appearance & Odor: Off-White color, Powder, Odorless
Boiling Point: N/A
Vapor Pressure & Vapor Density: N/A
Bulk Density: 0.5 g/cc
Melting Point: N/A
Evaporation Rate: N/A

Section 3: Hazardous Ingredients/Identity Information

Hazardous Components: OSHA PEL - ACGIH.TLV -
Other Components: Respirable particulate (dust)
Recommended Exposure Limit (dust) 0.05 mg/m3

Product Identification		
Chemical Name	CAS No.	%
Sodium Polyacrylate, Lightly Crosslinked Water	9003-04-7 7732-18-5	92 to 98 2 to 8
Acrylic Acid	79-10-7	<0.08

NFPA/HMIS: Health 1 Reactivity 0
 Fire 0 Specific Hazard 0
DOT Class: Not Regulated

Section 4: Fire & Explosion Hazard Data

Flash Point: Not available
Flammable Limits: Not available LEL -- UEL --
Extinguishing Media: Any

Special Fire Fighting Procedures: As with any fire, wear positive pressure, self contained breathing apparatus in any closed space when fighting fires.
Unusual Fire/Explosion Hazards: Under certain confined conditions, a concentrated fine dust of this material in air may cause a dust explosion if ignited.

Section 5: Reactivity Data

Stability: Stable **Incompatibility:** Strong oxidizers
Hazardous Decomposition or Byproducts: Thermal decomposition releases CO, CO2, Hydrocarbons
Hazardous Polymerization: Will not occur
Conditions to Avoid: None Known

Available Products

Part#	Description	Weight
AS-SB	Aqua Sorb in 16 oz. shaker bottle - 12/case	12 lbs.
AS-PAIL1	Aqua Sorb in 1 gallon pail	7 lbs.
AS-PAIL5	Aqua Sorb in 5 gallon D.O.T. bucket	40 lbs.
AS-DRM	Aqua Sorb in 350 pound drums	375 lbs.
AS-SAK	Aqua Sorb in 2000 pound super sacks	2000 lbs.

Section 6: Health Hazard Data

Route (s) of Entry: Inhalation, Skin, Eyes

Health Hazards: Contact with eyes, skin or clothing may cause irritation. Care must be taken to minimize exposure and prevent workplace inhalation of respirable dust. Respiratory protection is required for exposures above the recommended level of respirable dust.

Carcinogenicity: None known
Signs/Symptoms of Exposure: Slight irritant symptoms
Conditions generally aggravated by exposure: Respiratory Ailments

Emergency and First Aid Procedures:
Eyes: Flush with large quantity of water, consult physician
Skin: Wash with soap and water.
Inhalation: Remove to fresh air, consult physician

Section 7: Control Measures

Respiratory Protection: Use NIOSH/MSHA approved or equivalent with high efficiency filter for particulate levels above 0.05 mg/m3.
Ventilation: As appropriate to control airborne dust levels below the applicable exposure limits.
Protective Gloves: Impervious/rubber
Eye Protection: Safety goggles
Other protective clothing or equipment: None
Work/Hygienic Practices: Good Housekeeping Practices

OTHER NOTES: Slippery When Wet

Section 8: Precautions for Safe Handling & Use

Steps to be taken in case material is released or spilled: Vacuum (using HEPA filter equipped system) if possible to avoid generating airborne dust.
Waste Disposal Method: Dispose of in accordance with federal, state and local regulations.
Precautions to be taken in handling and storing: Store in a cool, dry place. Avoid breathing powder. Avoid skin & eye

Section 9: Supplemental Information

DISCLAIMER: The information contained herein is made available solely for consideration, investigation, and verification by the original recipients hereof. Users should consider this information only as a supplement to other information gathered by or available to them. Users should make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of these materials for the safety and health of employees, customers, and the environment. This hazard information is not a substitute for risk assessment under actual conditions of use. Users have the responsibility to keep currently informed on chemical hazard information, to design and update their own programs, and to comply with all applicable national, federal, state and local laws and regulations regarding safety, occupational health, right to know, and environmental protection. Aqua Sorb® does not cause hazardous materials to become non hazardous-aqueous liquids are merely and temporarily changed to a gelled semi-solid state.

Available Through: