

The information presented herein is believed to be accurate and reliable, but is given without guaranty or warranty, expressed or implied. The user should not assume that all safety measures are indicated or that other measures may not be required. The user is responsible for assuring that the product and equipment are used in a safe manner that complies with all appropriate legal standards and regulations

# DeIPAC 2000 STORAGE AND HANDLING

## Shipment

DeIPAC 2000 may be shipped in fiberglass, rubber lined and 316 stainless steel trucks which conform to D.O.T. specifications as well as the laws of the states in which they operate.

The average shipment is 4,500 gallons or approximately 45,000 pounds.

DeIPAC 2000 is unloaded through 2 inch reinforced rubber hose using air pressure supplied by the truck's air compressor. The fittings are 2-inch cam & groove quick connect couplers.

DeIPAC 2000 is also available in 275 gallon IBCs (totes) and railcars.

## Storage and Handling

Tanks for receiving tank truck deliveries should be 1.5 times the delivery amount or a minimum of 6,750 gallons capacity. An easy means of determining the level in the tanks should be available, such as a sight tube or dip stick, so that the tank will not be overfilled during delivery.

To insure optimum product performance, DeIPAC 2000 should be consumed within six (6) months of delivery.

Storage tanks should be emptied and inspected annually.

## Equipment and Piping

**Storage Tanks:** Tanks may be constructed of fiberglass/epoxy, lined steel. Polypropylene or polyethylene tanks have also been used.

**Piping:** Schedule 80 PVC or polymer lined piping can be used. Glass reinforced plastic or hard rubber are also suitable materials for piping. Due to the high coefficient of expansion for PVC and CPVC, piping made of these materials should not be anchored at both ends of a piping run and must be adequately supported when installed.

Gravity feed when possible. Initial pump cost and maintenance are eliminated. When centrifugal pumps are used they should be sized for head and flow requirements. Wetted pump parts should be of poly lined, plastic or fiberglass. Packing may be of graphite or Teflon.

Compatible gasket materials include Teflon, neoprene or rubber.

There are several types of valves suitable for handling DeIPAC 2000. Their wetted parts should be of Teflon, PVC, Hastelloy C, or rubber lined construction.

Feed rates and metering can be accomplished using rotameters, volumetric displacement pumps, weighing devices and mechanical feeders. The wetted parts of these devices should be constructed of Teflon, PVC, Hastelloy C or rubber.

Maintenance of the equipment should follow general industry standards and manufacturer's recommendations.

Piping and pumps taken out of service for more than thirty days should be thoroughly rinsed with water.

# DeIPAC 2000 STORAGE AND HANDLING

## Safety

DeIPAC 2000 is a corrosive hazardous material and must be handled with care. DeIPAC 2000 is acidic with a pH of 2.1 – 3.5 and is slightly hazy to clear with variable color. It is not volatile or flammable.

Precautions should be taken to prevent spraying or splashing. Under normal conditions, DeIPAC 2000 will not generate mists or vapors. No special ventilation is recommended. Have emergency eyewash stations, safety/quick-drench showers, and washing facilities available in the work area.

Avoid ingestion and contact with the skin. There is a risk of serious damage to eyes. Wear personal protective equipment when there is a possibility of being splashed or sprayed. Close fitting chemical splash goggles are recommended to protect the eyes. Rubber or neoprene gloves and boots, and a rubber apron, PVC, acid or chemical resistant suit may also be used to protect the employee.

In case of contact with eyes, rinse immediately with plenty of water (15 minutes is the recommended minimum time) and seek medical advice. In case of contact with skin, flush immediately from the skin with large amounts of water, since prolonged contact may cause tissue damage. Seek medical advice if any symptoms appear.

DeIPAC 2000 may be very slippery if spilled on stairways, walkways or floors and may be a significant slip hazard.

## Spill

Contain major spills to prevent entering water sources and sewers. Very minor spills may be washed to a chemical sewer, neutralized with soda ash to a pH of 5-9 or absorbed with an inert material.

Local and state regulations may require reporting of spills of a hazardous material. Spills occurring during the shipment of a hazardous material or during loading/unloading operations may have to be reported to the Department of Transportation (DOT) as specified in 49 CFR §171.16 Detailed hazardous materials incident reports.

If a facility plans to respond to a spill of DeIPAC 2000, the facility must have an emergency action plan and must train their employees. The requirements for planning and training can be found in 29 CFR §1910.120 Hazardous waste operations and emergency response.

Disposal of any hazardous material must comply with local, state and federal regulations. The proper disposal of DeIPAC 2000 spill residuals will be dependent on the circumstances of the spill.

DeIPAC 2000

Aluminum Chloride Hydroxide Sulfate

CAS # 39290-78-3

Specific Gravity 1.2 min.

Freezing Point -26°F

Boiling Point 230° F

pH 2.1 – 3.5

Solubility in Water 100 %

Evaporation Rate Same as water

Stability Product degrades

at elevated temperatures.

Avoid temperatures above 113° F

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