



## CARUS™ 4500 WATER TREATMENT CHEMICAL

### MUNICIPAL DRINKING WATER DATA SHEET

CARUS 4500 is an effective corrosion inhibitor for use in potable and industrial water systems. The product is a liquid concentrate of exceptional purity, clarity, and stability. It is manufactured with the highest quality phosphates for better corrosion control.

### BENEFITS OF CARUS™ 4500

- Inhibits corrosion of steel distribution system water lines, iron and galvanized piping, and lead and copper plumbing
- Forms a stable, evenly distributed film on the inside of the distribution piping and metal surfaces providing for effective corrosion control
- Decreases iron tuberculation extending the life of the distribution system
- Saves money by reducing corrosion and decreasing hydrant flushing, leaks, and failures
- Lowers lead and copper levels in the delivered potable water by inhibiting corrosion in the water system

### PROPERTIES & CERTIFICATIONS

Description:	Clear homogeneous liquid
Specific Gravity:	1.29 - 1.35
pH (1% w:w):	5.1-6.1
NSF Maximum Feed Rate:	31 mg/L
NSF/ANSI Standard:	60
Shelf Life:	3 Years
Kosher Approved	



Certified to NSF/ANSI CAN 60

Certified



Kosher Pareve

### HANDLING & STORAGE

CARUS 4500 should be handled with care. Wear proper personal protective equipment for your application which can include safety glasses, goggles, face shield, apron, respirator, and proper gloves when handling this product.

CARUS 4500 has a shelf-life of 3 years when stored and handled properly. Protect containers from physical damage. Store in a cool, dry, temperature controlled area in closed containers set off the floor. Store inside a heated building and off the floor for best storage conditions at your facility. Exposure to temperatures < 25°F (-4°C) for consecutive days may cause the product to increase in viscosity. It may become cloudy and/or freeze. In case of accidental release: contain spill by collecting the liquid in a pit or holding area behind a dam (sand or soil). Absorb with inert media and dispose of properly. Disposal of all materials shall be in full and strict compliance with federal, state, and local regulations. **Consult the Safety Data Sheet (SDS) for additional safety information.**

### COMPATIBILITY INFORMATION

CARUS 4500 can be stored in high-medium density polyethylene, cross-linked polyethylene, fiberglass reinforced plastic, 316 stainless steel, glass lined /epoxy lined steel tanks. Piping materials may include schedule 80 PVC/CPVC piping, clear PVC, and white polyethylene tubing. Pump materials may include ceramic, Teflon™, Viton™, Hypalon, and PVC liquid end pump materials.

Metering equipment can include diaphragm and peristaltic type metering pumps and other pumps meeting compatibility requirements.





## SHIPPING CONTAINERS

### 5 gallon (55 lb) Jerrican

Made of high density polyethylene (HDPE). Weighs 3.31 lbs. (1.5 kg). **The net weight is 55 lbs. (25 kg).**

### 30 gallon (330 lb) Drum

Made of high density polyethylene (HDPE). Weighs 12.2 lbs. (5.5 kg). **The net weight is 330 lbs. (149.7 kg).**

### 55 gallon (605 lb) Drum

Made of high density polyethylene (HDPE). Weighs 20.5 lbs. (9.21 kg). **The net weight is 605 lbs. (274.4 kg).**

### 275 gallon (3025 lb.) IBC (Intermediate Bulk Container)

The IBC has a 2 inch (5.08 cm) butterfly valve with NPT threads in bottom sump. Weighs 123.2 lbs. (55.9 kg). **The net weight is 3025 lbs. (1372 kg).**

**Bulk quantities** up to 3500 gallons are available.

Other containers may be available, contact Carus at (800) 435-6856 for details.

## SHIPPING

CARUS™ 4500 water treatment chemical is generally considered to be safe and is not classified as hazardous according to the US Department of Transportation, Canada TDG, UN, IMDG, or IATA regulations.

## CARUS VALUE ADDED

### LABORATORY SUPPORT

Carus has technical assistance available to answer questions, evaluate treatment alternatives, and perform laboratory testing. Our laboratory capabilities include: consulting, treatability studies, feasibility studies, and analytical services.

### FIELD SERVICES

As an integral part of our technical support, Carus provides extensive on-site treatment assistance. We offer full application services, including technical expertise, supervision, testing, and feed equipment design and installation in order to accomplish a successful evaluation and/or application.

### CARUS

During its more than 100-year history, Carus' ongoing emphasis on research and development, technical support, and customer service has enabled the company to become the world leader in permanganate, manganese, oxidation, and base-metal catalyst technologies.



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Driving Safety & Sustainability

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