



# Product Data Sheet

#073113

## Product Description

SorbX<sup>®</sup>-100 is an environmentally friendly salt solution developed specifically for rapid and stable precipitation of phosphorus in municipal and industrial wastewater facilities. This rare earth chloride solution is a high performance, water-soluble coagulant that has a very strong attraction to phosphorus. SorbX<sup>®</sup>-100's targeted reaction with phosphorus greatly reduces the amount of product needed to achieve the desired final phosphorus level in the plant effluent waste stream. As a result, less chemical sludge is generated in the treatment process.

SorbX<sup>®</sup>-100 has a higher solution pH versus typical coagulants used in water treatment, thereby reducing its corrosive impact on plant equipment. SorbX<sup>®</sup>-100 also has a mild effect on water pH and less pH adjustments may be necessary to maintain target alkalinity and pH levels. SorbX<sup>®</sup>-100 is a non-hazardous solution for phosphorus treatment and does not stain or discolor facility structures or equipment. SorbX<sup>®</sup>-100 is produced in Mountain Pass, CA, USA at Molycorp, Inc.'s production facility under ISO-9001 manufacturing standards.

## Physical & Chemical Properties

### Mixed Rare Earth Chloride:

31% - 35% w/w

**Physical State:** Liquid

**Liquid pH (neat):** 3.0 - 4.0

**Specific Gravity:** 1.4 - 1.6

**Aqueous Solubility:** Miscible

**Color:** Amber

**Odor:** Mild

**Freezing Point:** -40°F

## Safety and Handling

NFPA Ratings: Health 1 / Flammability 0 / Reactivity 0

Protective chemical gloves and goggles should be worn when loading, unloading, or handling SorbX<sup>®</sup>-100. Upon skin or eye contact, flush the affected area with water to avoid irritation.

Liquid SorbX<sup>®</sup>-100 should be stored away from and should not be directly mixed with highly oxidizing chemicals or liquid streams. Persons handling SorbX<sup>®</sup>-100 should consult the Material Safety Data Sheet prior to use.

## Product Storage

Storage tanks should be resistant to acid and chloride stress cracking. Composite materials such as polyethylene, polypropylene, rubber linings, and FRP (fiberglass reinforced plastic) are commonly used. Please verify compatibility of vessel material if uncertain.

Storage tanks/vessels must be thoroughly cleaned and flushed with water if previously occupied by another chemical solution. Premature precipitation of active ingredient may take place if storage container is not properly cleaned and flushed. SorbX<sup>®</sup>-100 can be stored at temperatures ranging from -40 to 120°F.

## Product Packaging/Shipping

- 3,600 gallon tanker truck
- 270 gallon one-way recyclable container

- Not classified as hazardous
- Not regulated by DOT, IMO/IMDG, or ICAO/IATA

## Contact Information

To learn more about the benefits of SorbX<sup>®</sup>-100 or for technical assistance, please contact Molycorp, Inc.

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