

# Genesys CAS

## Calcium Sulphate Antiscalant

Genesys CAS has been developed as an antiscalant for use in Reverse Osmosis and Nano-Filtration systems operating with feed-waters containing high levels of Calcium sulphate. Genesys CAS is also effective against Calcium carbonate and other commonly found scaling species. The strong threshold properties shown by Genesys CAS against Calcium sulphate and Calcium carbonate enable membrane systems to be operated at their optimum recovery rate. This reduces the amount of feed water needed and the volume of concentrate requiring disposal. Consequently, significant savings can be made with both capital and operational costs.

### Application

Genesys CAS should be dosed continuously to the feed water upstream of the cartridge filter.

Typical dosage rates are 3-5mg/l. Under NSF listing the Genesys CAS dose rate in the feed water should be less than 5mg/l in potable water systems.

The optimum dosage rate can be calculated using the Genesys Membrane Master software. Genesys CAS can be diluted and is fully miscible with water in all proportions.

### Health and Safety

Genesys CAS is a non-hazardous, synergistic blend of phosphonates and carboxylic acids and is fully compatible with carbon steel and commonly used materials of construction.

A material safety data sheet is available on request.

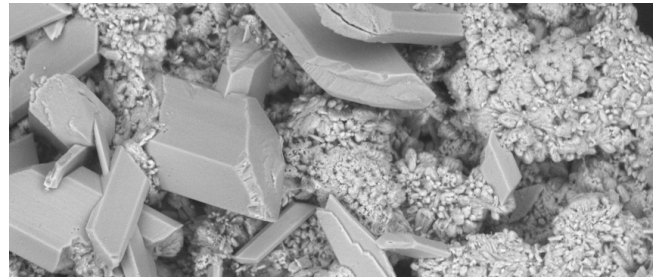
### Classification

CHIP: Not Classified | UN: Non Hazardous

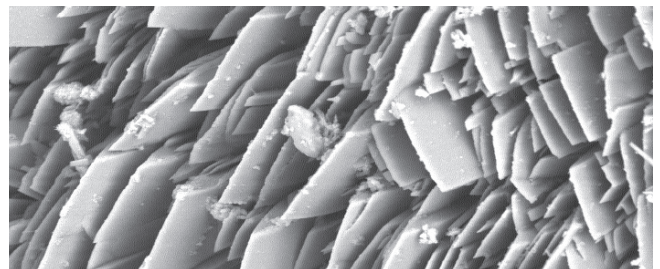
### Packaging

Available in 25 kg kegs, 250 kg drums and 1,300 kg IBCs.

The shelf life is 2 years under normal storage conditions.



Inhibits Scale Formation



Calcium Sulphate Specific

- ✓ Suitable for Reverse Osmosis (RO) and Nano-Filtration (NF) membranes
- ✓ Compatible with all polyamide membranes
- ✓ Replaces acid addition
- ✓ Allows high recovery rates
- ✓ Simple test method
- ✓ Inhibits common scales
  - Barium/Strontium sulphate
  - Calcium carbonate/sulphate
  - Iron/Manganese
  - Silica
- ✓ NSF listed

### Typical properties

Appearance: pale clear liquid  
pH as supplied: 8.3 – 8.7  
Specific gravity: 1.31 – 1.33  
Freezing point: < -5°C

The information provided in this data sheet is believed to be true and accurate. Genesys International Ltd. accepts no product liability as the use of its products are outside the company's control.