

CHLORINE SCAVENGER

# Kuriverter™ AC-427\*

Odorless Liquid Chlorine Remover

## APPLICATIONS

Kuriverter™ AC-427 is a modified, odorless liquid sodium bisulfite formulation used to remove free and combined chlorine from reverse osmosis (RO) feedwaters. This food-grade chemical is stabilized to prevent off-gassing, making it ideal for indoor installations.

Kuriverter AC-427 removes chlorine more effectively than activated carbon and eliminates many of the issues associated with carbon beds, including bacterial growth and carbon fines in downstream feedwaters.

## DECHLORINATING

The use rate of Kuriverter AC-427 for free chlorine is 6 mg/l of neat Kuriverter AC-427 for each mg/l of free chlorine. The neat use rate for combined chlorine (monochloramine) is 8.2 mg/l of neat Kuriverter AC-427 for each mg/l of combined chlorine. Table 1 lists Kuriverter AC-427 feed rates as a function of feedwater chlorine concentration. The table bases values upon a feed rate of 100 gpm (22.7 m<sup>3</sup>/hr) and a 100% theoretical required dosage.

FREE OR COMBINED CHLORINE mg/l as Cl <sub>2</sub>	FREE CHLORINE FEED RATE ml/minute	COMBINED CHLORINE FEED RATE ml/minute
0.2	0.37	0.50
0.5	0.95	1.26
1.0	1.85	2.52
1.5	2.78	3.78

**Table 1.** Feed rates for Kuriverter™ AC-427 Odorless Chlorine Scavenger

Multiplying the Kuriverter AC-427 feed rate by 1.2 provides a 20% safety factor. Always confirm chlorine removal by direct chemical analysis.

## STABILITY

When diluting the solution, use the minimum agitation necessary to achieve proper mixing. The freeze point for this formulation is 40°F to 50°F (4.4°C to 10°C).

## CHEMICAL AND PHYSICAL PROPERTIES

CHARACTERISTICS	DATA
Appearance	Clear, colorless to pale yellow liquid
pH (as supplied)	5.0 – 6.4
Specific gravity (@25°C):	1.10 – 1.35

## PERFORMANCE BENEFITS

- A powerful, odorless dechlorinating agent that is more stable than typical sodium bisulfite liquids.
- Stabilized to prevent off-gassing, making it ideal for indoor use.
- An ideal option for eliminating issues associated with carbon beds, including carbon fines in downstream feedwaters.

## PACKAGING AND STORAGE

Standard regional pack sizes are listed below. Information on drumless or bulk tanker delivery is available on request.

Product should be stored at a temperature greater than 41°F (5°C) to prevent seed crystal formation.

PACKAGING FORMAT	AMERICAS	ASIA	EMEA
Pail	45 lb	20 kg	20 kg
Drum	500 lb	200 kg	200 kg
IBC tote	2500 lb	1100 kg	-

Please consult your sales representative for further technical or logistical details, and always review the SDS before use to ensure suitable safety precautions are followed.

\*Kuriverter AC-427 was previously named AntiChlor 427. This product has been renamed to Kuriverter to create a globally trademarked chlorine scavenger line. There has been no formulation change.

**GLOBAL HEADQUARTERS**

Avista | Center of Excellence  
Avista Technologies, Inc.  
140 Bosstick Boulevard  
San Marcos, California 92069  
info@avistatech.com  
☎ +1 760 744 0536

**ASIA**

Avista Technologies Singapore, Pte Ltd.  
60 Albert Street,  
#14-01 OG Albert Complex  
Singapore 189969  
info@avistatech.com  
☎ +65 9729 4536



AvistaMembraneSolutions.com

