

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 m³/hr) and a 100% theoretical required dosage.

FREE OR COMBINED CHLORINE mg/l as Cl ₂	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

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