

VX 456[®] Chemical Oxidizer for Odor Control

VX 456[®] proprietary mixed oxidant is designed to remove and control malodors in waste streams. As delivered, VX 456[®] solution reacts rapidly with sulfides and other odor-causing compounds commonly found in wastes and continues to control odors for an extended period of time (up to 72 hours). It does not contribute to solids formation and does not interfere with further processing of waste.

Typical Application

- Solids processing
- Force mains
- Septage and leachate
- Lift stations/wetwells

VX 456[®] solution is a selective oxidant with specificity to sulfides and related organic odor causing compounds. It does not form chlorinated organics, is fast-reacting, and has long duration control. VX 456[®] solution is effective at treating odors in anaerobic lagoons, sludge de-watering operations, and collection systems and is generally applied using custom designed feed systems.

Typical Feed Requirements

VX 456[®] solution can be added directly to the system creating odors, applied as a spray on exposed sludge, or fogged above the surface of the odor source. When applied directly, VX 456[®] solution should be added by a method to ensure uniform mixing, such as through an injection quill or into a static mixer.

When applied as a fog or spray, VX 456[®] oxidizer should be applied at a rate from 50 to 2000 mg/L in water depending on system demand. Continuous over-spray onto organic matter should be avoided. Clean, low demand dilution water should be used whenever possible. Concentrations above 2000 mg/L water should never be sprayed or fogged.

Personnel should not enter spaces where they could come into contact with a fog or spray. Use lockout/tagout procedures when working in or around a VX 456[®] oxidizer spray or fog application. VX 456[®] solution is not intended for use on produced oilfield fluids or solids, and should not be applied to these systems.

For additional treatment information, including dosage specific to your application, please contact your Siemens Water Technologies representative.

Typical Physical Properties	
Appearance	Clear to slightly yellow liquid
Odor	Slight chlorine odor
Specific Gravity	1.28 at 25°C
Density	10.7 lb./gal. @ 25°C (typical)
Freezing Point	-29°C (-20°F)
pH (as supplied)	>12

Typical properties are listed for information only, and are not to be considered as specification requirements. These items are not analyzed on a routine basis.



Storage and Handling

Store in a cool, dry, well ventilated place away from heat, cold, chlorine, combustible or other readily oxidizable materials, reducing agents, solvents, sulfur containing compounds, and/or acids. Do not store at temperatures above 100°C (212°F). Do not expose to direct sunlight or ultraviolet light. Always use care when opening containers and keep tightly closed when not in use. Do not reuse containers.

VX 456® solution is corrosive. Do not get in eyes, or on skin, or clothing. Do not taste or swallow. Do not handle with bare hands. Use only thoroughly clean, dry utensils when handling. Avoid breathing fumes. This product becomes a fire hazard if allowed to dry. Remove and wash contaminated clothing to avoid fire.

See Material Safety Data Sheet for additional safety and handling information.

Packaging

VX 456® solution is available in, 55-gallon drums, totes, and in bulk quantities. For further information, please contact your Siemens Water Technologies representative. For reorders and customer service, call 1.800.345.3982.

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MS-VX4456SPEC-DS-0309
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