MICROBICIDES

PERFORMANCE CHEMICALS

WANT RELIABILITY

when it comes to microbicides?

Buckman is a recognized leader in microbiological research and control.

Buckman provides high performance in it's oxidizing and non-oxidizing biocides to control microorganisms in your system. Buckman performance chemicals will enable you to optimize your system and product performance. Our microbicides are unsurpassed in the industry for quality, effectiveness and value. We can help you identify the right microbicide for your application.

Oxidizing Microbicides

SOBR2
Characteristics:
- Microbicide precursor
- 40% sodium bromide solution

Uses:
- When used in conjunction with an oxidizer, SOBR2 brominates cooling water systems

Busan® 1735
Characteristics:
- Broad spectrum microbicide
- Sodium hypochlorite 7%
- Sodium bromide 1.5%

Uses:
- An oxidizing biocide comprised of chlorinated inorganic chemistry supplemented with sodium bromide. Upon addition to water two different oxidizing biocides are present to provide microbial kill as well as sessile bacteria encapsulated in biofilm, thus preventing their growth.

TBCH
Characteristics:
- Chlorine/bromine based microbicide
- Tablet form
- Rapid release of oxidizing agents
- Effective pH range of 6-9

Uses:
- Removes infestations of biological growth, oxidizing microbiological slime, and other deposits in cooling

Non-Oxidizing Microbicides

Busan® 77 (WSCP*)
Characteristics:
- Polymeric, water-soluble quaternary ammonium compound

Uses:
- Controls the growth of algae and bacteria in recirculating cooling water systems and the growth of slime-forming bacteria in heat exchangers
- Controls the growth of algae in swimming pools, holding ponds, reservoirs, and the growth of bacteria in holding and processing tanks of industrial fresh water systems
- Controls bacteria in industrial air washing systems

DIMET 1250 (DIMET*)
Characteristics:
- Broad-spectrum microbicide
- Dithiocarbamate

Uses:
- Controls algae, bacteria, and fungi in recirculating commercial and industrial cooling water systems
- Controls sulfate-reducing bacteria in petroleum waterflood systems
- Controls bacteria in industrial air washers

DIALD 25, DIALD 15 (DIALD 50*)
Characteristics:
- Broad-spectrum, water-soluble microbicide based on glutaraldehyde
- Effective in a wide range of applications, quick killing action, perfect as a sanitizer where contamination and cleanup conditions need to be addressed

Uses:
- Commercial and recirculating cooling water systems, air washer systems, service water and auxiliary systems, and wastewater systems

MECT, MECT 5
Characteristics:
- Combines two highly effective biocides

Uses:
- Controls bacteria, algae, and fungi in industrial and commercial cooling water and process water systems
- Controls fungi in wood cooling towers

- Controls bacteria and fungi that cause the degradation of crude oil and refined fuel oils during storage including olefinic, aromatic, paraffinic and naphthenic oils; gasoline, biofuel, diesel #1, diesel #2, biodiesel, and bunker C

Busan® 1078
Characteristics:
- Combines two isothiazolone derivatives
- Effective at low concentrations over a broad pH range
- FDA allowed in multiple categories
- Available in a copper-free version

Uses:
- Broad spectrum of activity especially effective against bacteria that cause fouling and corrosion in industrial cooling water systems
- Effective in controlling planktonic organisms, but the product will also aid in the control of attached biofilm organisms
- Busan 1078 CF is recommended particularly for the control of bacteria and fungi in air washers, recirculating cooling systems, metal working fluids

KTND
Characteristics:
- Combines two isothiazolone derivatives
- Water based, effective at low concentrations over a wide pH range
- Broad-spectrum microorganism control of aerobic and anaerobic bacteria and fungi
- Available in a copper-free version

Uses:
- Controls the growth of microorganisms that cause fouling in recirculating cooling water systems and closed-loop water systems
- Controls microbiological fouling in reverse osmosis systems
- Treatment of conveyor belt lubricants, fuels and oils such as crude oils, aviation fuels, kerosene, heating oils, diesel fuels, residual fuel oils, coal slurries, liquefied petroleum gases and petrochemical feedstocks, air washer systems, and reverse osmosis systems

WSKT 10
Characteristics:
- Patented, synergistic blend of mixed isothiazolones and a cationic quaternary ammonium polymer
- Effective against green algae, cyanobacteria, and nitrifying bacteria

Uses:
- Control microbiological fouling in industrial air washer systems and in fire water protection systems
- Prevent microbial degradation and fouling in metalworking fluid systems

Bronam® 20
Characteristics:
- Broad-spectrum, microbicide compatible with chlorine, bromine, and nonhalogenated oxidizing biocides

Uses:
- Controls bacteria, fungi and algae in commercial and industrial recirculating cooling water, once-through cooling, air washers, reverse osmosis, fresh- and sea-water cooling systems, cooling ponds, canals and lagoons
- Preservative to reduce microbiological contamination in raw materials and products such as aqueous slurries, inks, polishes, waxes, detergents, and cleansers

Busan® 1144
Characteristics:
- Broad spectrum biocide
- 2-Bromo-2-nitropropane-1,3-diol 10%

Uses:
- Commonly referred to as bronopol or BNPD this product may be used for the control of bacterial and fungal growth in water systems

DAZ
Characteristics:
- Thion based product

Uses:
- Controls algae, fungi, and slime-forming bacteria in commercial and industrial recirculating cooling water systems
- Assists in preventing the formation and accumulation of deposits associated with the growth of bacteria and fungi in these systems

Formulatable in qualified EPA establishment plants.

Buckman
Chemistry, connected.

Biocide Reference Chart

Microbicide	Foam	6-8 pH	8-9	Bacteria	SRB	Light Algae	Heavy Algae	Fungi
Busan® 77	No	R	R	R	N	R	R	R
WSCP (15, 20, 30, 60)	No	R	R	R	N	R	R	R
DIMET (1250, 50)	No	R	R	R	R	R	N	N
DIALD (15, 25)	No	R	R	R	R	N	N	N
MECT, MECT 5	Slight	R	R	R	R	R	N	R
Busan® 1078	No	R	R	R	R	R (↑ dose)	R (↑ dose)	R (↑ dose)
KTND	No	R	R	R	R	R (↑ dose)	R (↑ dose)	R (↑ dose)
WSKT 10	No	R	R	R	R	R	R	R
BRONAM® 20	No	R	R	R	R	N	N	N
Busan® 1144	No	R	R	R	N	N	N	R
DAZ	No	R	R	R	N	R	N	N
SOBR2	No	N	R	R	N	R	R	R
Busan® 1735	No	R	R	R	N	N	N	N
TBCH	No	N	R	R	N	R	R	R

R = Recommended
N = Not recommended

U.S. EPA registered biocides cannot be repackaged, diluted or relabeled without approval from Buckman and subsequent registration with the U.S. EPA. Please contact your Buckman representative if you have any questions concerning your use of Buckman registered biocides.

U.S. EPA registered biocides must be used in approved applications in accordance with the U.S. EPA approved label. Your Buckman representative can answer questions regarding approved uses.

U.S. EPA registered products must be registered with each local state EPA agency prior to shipment into that state. Ask your Buckman representative for information regarding Buckman state registrations.

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