



SPECIALTY CHEMICALS

IN-HOUSE FORMULATED SPECIALTY CHEMICALS

Throughout years of experience in servicing the wastewater industry, DIA-Chemical has developed specialty chemicals to complement and improve the treatment performance.



PRODUCTS RANGE

Emulsion Breaker EL-1000

Ammonia Removal AMRemove-1000

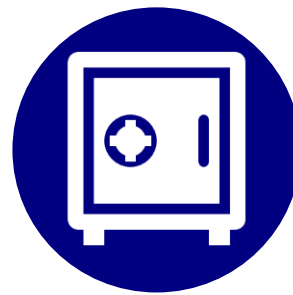
Biogas Boost 1000



**IN-HOUSE
FORMULATED**



**INCREASE PROCESS
EFFICIENCY**



**COST
SAVING**

EMULSION BREAKER

EL-1000

Emulsion can cause severe fouling & corrosion problems in distillation columns, heat exchangers and reboilers. Our Emulsion Breaker EL-1000 will rapidly break the oil and water emulsion by destabilizing the droplets surface tension. It enhances oil and water separation when oil or water droplets aggregate into larger particles. It is highly effective when applied under high temperature.

Advantages:

- Reduction of impurities leading to less corrosion & fouling
- Increase oil recovery efficiency
- High operational efficiency
- Low maintenance costs
- Better dewatering
- Eco-friendly operation through effective oil recycling



Figure 1: Before & After application of EL-1000

Product Characteristics:

- Available in liquid form and direct use as received
- Storage temperature is between 0 – 35 (°C)
- 24 months of shelf life
- 25 kg per carboy
- Other packing made available upon request

Storage and Handling:

- Store in a cool, dry place at 10–35 °C (50 – 95 °F)
- Avoid inhalation
- Wash hands thoroughly with soap and water after handling.
- Avoid eye contact



Figure 2: Emulsion Breaker EL-1000

Need support? Kindly contact our qualified experts today!

E-mail: info@dia-chemical.com

Contact: +603-7845 7895

AMMONIA REMOVAL

AMRemove-1000

Ammonia is usually removed by means of biological treatment: nitrification. The biological removal of ammonium (nitrification) is carried out in two stages, using two types of aerobic and autotrophic bacteria (i.e., consuming mineral carbon), which transform the ammonium ion into nitrites, then nitrates. AMRemove-1000 is a specially formulated chemical to provide sufficient nutrients and food to these microorganisms. It helps to regulate pH, enhance nitrification activities, and enhance bacteria growth. It is particularly useful to remove ammoniacal nitrogen in wastewater, sewage and leachate.

Advantages:

- Enhance the nitrification process under toxic, inhibitory, or cold weather conditions.
- Reseed Nitrifying bacteria can speed up the nitrification, because naturally occurring Nitrifying bacteria is a very slow growing bacteria.
- Upgrade ammonia reduction performance without extra footprint and equipment.
- Convert the harmful nitrite/hydrogen sulphide/ ammonia nitrogen to harmless nitrogen and/or nitrogen oxide.
- 100% natural, chemical free, eco-friendly solution.



Figure 1: Nitrifying bacteria top-up on site

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Figure 2: Ammonia Removal
AMRemove-1000

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BIOGAS BOOSTER

BIOGAS BOOST 1000

Biogas Boost 1000 is an in-house formulated micro and macro nutrients for optimum growth of anaerobic bacteria in a biogas system. It is designed and created to quick start anaerobic digestion and improve efficiency of anaerobic treatment process, because natural anaerobic bacteria is slow growing microorganism.

Advantages:

- It increases biogas generation, methane yield and reduces hydrogen sulphide generation.
- It enhances anaerobic sludge settling properties and encourage granulation.
- Such improvement will increase solids retention time (SRT) and thus giving higher biogas production efficiency.
- It improves chemical oxygen demand (COD) removal rates.



Figure 1: Field Application of Biogas Boost 1000

Product Characteristics:

- Available in liquid form and direct use as received
- Storage temperature is between 0 – 35 (°C)
- 24 months of shelf life
- 25 kg per carboy
- Other packing made available upon request

Storage and Handling:

- Store in a cool, dry place at 10–35 °C (50 – 95 °F).
- Avoid inhalation.
- Wash hands thoroughly with soap and water after handling.
- Avoid eye contact.
- Corrosive, avoid contact with metals



Figure 2: Biogas Boost 1000

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DIA-Chemical Sdn Bhd

OUR PRODUCTS

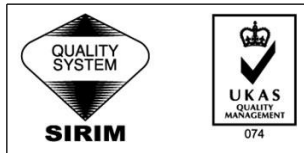
- DIACHLOR™ SERIES COAGULANTS
- POLYFLOC SERIES FLOCCULANTS
- OTHER SPECIALTY CHEMICALS
 - EMULSION BREAKER EL-1000
 - AMMONIA REMOVAL AMRemove-1000
 - BIOGAS BOOST 1000

OUR SERVICES

- JAR TEST ANALYSIS
- BIOMETHANE POTENTIAL MEASUREMENT
- WATER & WASTEWATER ANALYSIS
- ENGINEERING SERVICES
- TURNKEY PROJECT FOR TREATMENT PLANTS
- EPCC FOR TREATMENT PLANTS

For more details, please visit us at www.dia-chemical.com

CERTIFIED BY



CERTIFIED TO ISO 9001:2015
CERT. NO.: QMS 03673

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