



# Diverflow<sup>®</sup> Uniforce

# VS44L

## Low Foam Acidic Brewery CIP Detergent

### Description

Diverflow<sup>®</sup> Uniforce is a highly concentrated low foaming acidic detergent suitable for clean in place applications in the food and beverage industry (beverage, dairy and processed foods). The advanced formulation is phosphate and nitrate free and has been developed to reduce the CIP time of CIP programs by combining powerful detergency properties. Diverflow<sup>®</sup> Uniforce is suitable for CIP in the presence of CO<sub>2</sub> in the brewing industry.

### Effective

- Low foam characteristics make this product ideal for CIP use
- Effective at removing inorganic scale deposits, including calcium carbonate, calcium phosphate and calcium oxalate.

### Versatile

- Formulated to remove beer soil from fermentation tanks, maturation tanks, bright beer tanks, beer fillers and kegs.
- Effective at temperatures up to 35°C ( 95°F)
- Concentrations can be measured and controlled using conductivity.

### Economical

- Excellent rinsing characteristics help to reduce rinse times
- Solutions can be reclaimed and reused.
- Supports the reduction in the number of cleaning steps and temperature in many CIP scenarios. This, with its low foaming and excellent rinsing properties, reduces CIP time, energy and water consumption.

### Low Environmental Impact

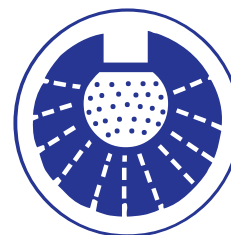
- Biodegradable and free of phosphates and nitrates.

### Discussion

Diverflow<sup>®</sup> Uniforce provides effective cleaning ensuring equipment hygiene and product quality assurance. It is suitable for removal of high soil loadings associated with brewing fermentation vessels. Diverflow<sup>®</sup> Uniforce reduces CIP time as it eliminates the often long carbon dioxide removal times necessary when cleaning brewing vessels with caustic. This results in lower energy and water usage and improves equipment turnaround, thereby increasing production capacity. Diverflow<sup>®</sup> Uniforce is suitable for use at ambient temperatures in many scenarios, reducing utility costs and heat stress. Reduced corrosion potential and thermal stress minimizes maintenance requirements. Diverflow<sup>®</sup> Uniforce is particularly suitable where phosphate and nitrate restrictions apply. This formulation results in lower effluent discharge volumes when the product is reclaimed and rinse times are reduced. Diverflow<sup>®</sup> Uniforce can be used under CO<sub>2</sub> pressure or atmospheric pressure, at ambient temperatures. The use of this acidic cleaner compared to caustic based CIP avoids the risk of tank implosion and minimizes the risk of contamination with oxygen. Diverflow<sup>®</sup> Uniforce can be used in carbon dioxide atmospheres without evacuation and has demonstrated that it does not have any detrimental effect on beer head retention under normal use conditions.

Diverflow<sup>®</sup> Uniforce is safe for use on lined tanks used in the brewing industry. It is suitable for automatic dosing and control by conductivity, ensuring consistent delivery of product and performance.

The CIP process may require the use of sacrificial caustic step to help remove unusually heavy yeast deposits.



**Diverflow**



# Diverflow<sup>®</sup> Uniforce

# VS44L

## Low Foam Acidic Brewery CIP Detergent

### Use Instructions

For cleaning of fermenters, storage tanks, bright beer tanks, and kegs.

1. Pre-rinse system with water until clear.
2. Prepare a 4-23 mL/L (0.5 to 3 oz/U.S. Gal.) solution of Diverflow<sup>®</sup> Uniforce detergent and circulate for 20-45 minutes.
3. Rinse thoroughly with potable water. Contact your Diversey representative for other applications.

### Technical data

Form/Color	Clear, colorless liquid
Odor	Acidic
Specific Gravity	1.05
pH (1%)	< 2.0
% Nitrogen	0.0
% P	0.0
% Total Acidity(reported as phosphoric)	13.8

The above data is typical of normal production and should not be taken as a specification.

### Diverflow<sup>®</sup> Uniforce

% w/w	Specific conductivity at 25° C [mS/cm]
1.0	3.92
1.5	5.47
2.0	6.92
2.5	8.30
3.0	9.68
4.0	12.21
5.0	14.80

### Safe handling and storage information

Store in original closed containers, away from extreme temperatures. Full guidance on the handling and disposal of this product is provided in a separate Safety Data Sheet.

### Product compatibility

Diverflow<sup>®</sup> Uniforce cleaner is safe for use on materials commonly found in the beverage and food industry when applied under the recommended conditions. Always rinse surfaces thoroughly after use. In the event of uncertainty, it is advisable to evaluate individual materials before any prolonged use.

**For Food Plant Use:** All food contact surfaces must be thoroughly rinsed with potable water after treatment with this product.

### Test Kit

Acid Test Kit #409724

### Precautionary Statement

Refer to current Safety Data Sheet.