## PRODUCT DATA

# ASR CYFLOC TF-9000 Cationic Granular Flocculant

### Product Description

ASR CYFLOC TF-9000 is a High Molecular weight polyacrylamide-based flocculant with Very-High cationic charge density, supplied as free flowing granular.

### Chemical Structure

Co-polymer of acrylamide & quaternized cationic monomer

### Typical Properties (Refer to the SDS Sheet)

Appearance: Off white free flowing granular
Bulk Density: approx. 0.70 g/cm$^3$
pH 1% Solution @ 25$^o$c approx. 3.6-4.6

| Product | Cationic Charge | Apparent viscosity (cP) at 25$^o$c | | |
|---|---|---|---|---|
| | | 0.25% | 0.50% | 1.0% |
| ASR CYFLOC TF-9000 | Very-High | 400 | 700 | 1950 |

### Principal Use & Benefits

Flocculant for conditioning a variety of municipal & industrial substrates prior to mechanical or static solid/liquid separation.

### Product Application

Zetag products need to be prepared into solution prior to use. Solution concentrations in the range 0.1-0.50% are recommended.

Highly effective across a wide range of applications (e.g. mechanical thickening and dewatering, flotation and clarification. Operation covers a wide pH range (2-11) with good shear stability and low foaming properties

These products are not suitable for use in potable water applications. If in doubt regarding suitability for a given application, please contact your local Representative

### Storage

Product shelf life is 48 months based on date of manufacturing when sealed in its original packaging Recommended storage temperature is ranging between 5-25°C

NOTE – Packages should be kept sealed when not used. Avoid contact with water prior to make-up

### Preparation & Handling

As with all cationic polyelectrolytes the product exhibits toxicity towards fish. It is important that precautions are taken where the product may come into direct contact with fresh-water courses, streams and rivers.

Spilled product is slippery, especially when wet. Please refer to the SDS for methods of removing the polymer.

Maximize product solubility by using make-up water as soft as possible. At temperatures <5$^o$C products will be adversely affected to the extent that longer dissolution times will be required to achieve maximum performance.

Ensure make-up water temperature is below 25°C

For product disposal please refer to the Safety Data Sheet (SDS). Please refer to the Safety Data Sheet (SDS) for shipping and handling information.

### Material Compatibility

Corrosion towards most standard materials of construction is very low.

Stainless steel, fiberglass, polyethylene (HDPE), polypropylene (PP) and rubberized surfaces are recommended. In some cases, aluminum surfaces can be adversely affected.

### Packaging

This product is available in a variety of packaging sizes. Your ASR representative will recommend the appropriate packaging size for the application.

### Safety

ASR maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using ASR products in your facilities.

### Regulatory Information

Refer to the SDS or contact your sales representative for any additional regulatory and environmental information.

ASR maintains an SDS for all of its products. Use the health and safety information contained in the SDS to develop appropriate product handling procedures to protect your employees and customers.

Our SDS should be read and understood by all of your supervisory personnel and employees before using ASR products in your facilities.

**Shanghai Sunwise Chemical Co., Ltd.** Room 10E, Building G, Westlink Center, No. 2337 Gudai Road, PC: 201100, TEL: +86 21 33883180, Minhang, District, Shanghai, China.