

# DATA SHEET

## HALAMID<sup>®</sup>

### APPLICATIONS

Halamid<sup>®</sup> is a universal, readily biodegradable disinfectant which is widely used as a germicide in sanitary practices, because of the following properties:

- Active against bacteria (Gram positive and Gram negative), viruses (naked as well as enveloped) and fungi.
- Stable and active at low as well as elevated temperatures.
- Safe to handle, both powder and aqueous solution.
- Safe to nature, readily biodegradable and none of the chlorine disadvantages.
- Superior storage stability.
- No risk of building up resistant microorganisms.

Halamid<sup>®</sup> is the Universal Disinfectant which is used in numerous branches of industry like:

Intensive farming	Aquaculture
Hospitals	Veterinary practice
Slaughterhouses	Water disinfection
Meat-packers and butcheries	Personal hygiene
Breweries and soft drink industry	Swimming pools
Dairy and margarine industry	Drinking water disinfection
Sugar and potato industry	Wastewater treatment
Food industry including canning	Disinfecting washing powders
Ice-cream industry	

Halamid<sup>®</sup> is also used as a mild oxidizer in various applications like:

Washing powder (as a bleaching agent)	Gas deodorisation
Textile dyeing	Wastewater deodorisation
Radio-labelling techniques	Textile bleaching
Reagent in analytical chemistry	

### CHEMICAL NAME

Sodium N-chloro-para-toluenesulfonamide  
(CAS-NO: 127-65-1) ; (EEC-NO.: 204-854-7)

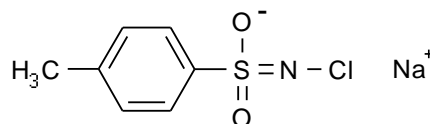
### MOLECULAR FORMULA

C<sub>7</sub>H<sub>7</sub>ClNNaO<sub>2</sub>S.3H<sub>2</sub>O

### MOLECULAR MASS

281.5

### STRUCTURE



### SPECIFICATION

Assay		98.0 - 103.0 % m/m
Turbidity	0.5 % solution	≤ 5 FTU
Colour	5 % solution	≤ 25 Pt/Co
pH	5 % solution	8.0 - 10.3

The test methods to which these specifications refer are available on request.

HALAMID®

## MODE OF ACTION

Halamid® if dissolved in water ionises. The Halamid® ion formed, reacts with microorganisms, with which it comes into contact. The reaction is based on an oxidation of cell material, killing the microorganism quickly even though the solution may be very dilute. The high stability of the Halamid® ion gives Halamid® a kind of "reservoir capacity", so its activity is not spent at once but remains present over a longer period. Since the mechanism of the microbial destruction is basically an oxidation, there is no risk of building up of resistant organisms.

For dosage recommendations we refer to the separate Technical Bulletins available on request.

## MAIN CHARACTERISTICS

Appearance	White crystalline powder
Solubility in water	150 g/l (25 °C)
Apparent bulk density	540-680 kg/m <sup>3</sup>
Flash point	192 °C (Pensky-Martens, closed cup)

## TOXICOLOGICAL AND ECOTOXICOLOGICAL INFORMATION

Acute toxicity, oral LD50, rat, mouse:	approx. 1000 mg/kg
Mutagenicity, Ames test:	not mutagenic
Fish, 96h-LC50 (Poecilia reticulata):	31 mg/l
Daphnia, 48h-EC50:	4.5 mg/l
Biotic Degradation:	readily biodegradable

For more detailed information ask for the separate Technical Bulletins and/or Safety Data Sheet.

## PACKAGING

25 kg 3 ply paper bags, 35 on a pallet.  
25 kg polyethylene drums, 24 on a pallet.  
125 kg fibre drums, 4 on a pallet.  
1000 kg big bag.

Small packaging available on request

## STORAGE

Store dry, cool and not in direct sun light. Opened packaging must be closed properly.

## FURTHER INFORMATION

For transport, handling and first aid instructions please refer to the Safety Data Sheet, which is available on request.

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