DATA SHEET

HALAMID®

APPLICATIONS

Halamid® 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® is the Universal Disinfectant which is used in numerous branches of industry like:

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

Halamid® is also used as a mild oxidizer in various applications like:

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

CHEMICAL NAME

Sodium N-chloro-para-toluenesulfonamide
(CAS-NO: 127-65-1) ; (EEC-NO.: 2048547)

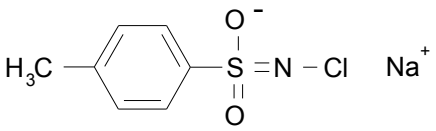
MOLECULAR FORMULA

$C_7H_7ClNNaO_2S.3H_2O$

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 g/ml
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 recticulata):	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.
For samples, technical service and further information, please contact your nearest Akzo Nobel Chemicals Sales Office or agent, or:

Axcentive SARL
Chemin de Champouse
Quartier Violesi
13320 Bouc Bel Air
France
Tel. +33 4 42 69 40 90
Fax +33 4 42 69 40 99

September, 2004