

GREENFLOC[®] 120

1. Identification of the substance/preparation and of the company

Identification of the product

Product name: Greenfloc 120 cationic flocculant

Manufacturer/supplier identification

HYDRA 2002 Research, Development and Consulting Ltd.			
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2. Introduction of the product

Greenfloc 120 is an environmentally friendly, starch based, cationic flocculant. Because of its non toxic character its application is very advantageous in drinking water treatment, in the food industry or in the biotecnology either alone as flocculant or together with other cationic flocculants.

Composition/information on ingredients

Cationic starch ether		16.7 wt%	CAS No.:	56780-58-6
Sodium metabisulfite preservative	<	0.5 wt%	CAS No.:	7681-57-4
Water	to	100.0 wt%		

Physical and chemical properties

Form:		viscous liquid
Colour:		opaque white
Odour:		slight odour
pH value:		pH=7 in 100 g/L H ₂ O slurry
Melting point:		not available
Boiling point:		~ 100 °C
Ignition temperature:		not available
Flash point:		not available
Explosion limits	lower:	not available
	upper:	not available
Density:		1050 kg/m^3
Solubility in water:		completely soluble in water.
Thermal decomposition	on:	~ 200 °C

3. Authorization

Approved flocculant for drinking water treatment (OTH-2653/2004).

4. Application

Application area

Greenfloc 120 can be used in the drinking water treatment, sugar industry, food industry, paper making, other chemical technologies, wastewater treatment alone or together with coagulants as coagulant aid. It can be mixed with synthetic flocculants too.

Dosage

In drinking water treatment with Al-or Fe-salts the

usual dosage is $0.2-0.6 \text{ g/m}^3$ water.

In food industry and in other technologies the dosage is depending on many parameters, the recommended dosage is ranging between 0.1-50 g/m3.

Application of the flocculant

The flocculant liquid is gradually diluted to the required concentration with cold water. This solution is dosed to the suspension to be flocculated.

5. Handling and storage

Concentrated solution (16.7 m/m%):

In tightly closed container at +5°C-+25°C can be stored for 4 months.

Diluted solution (0.1-1 m/m%):

The solution of the product should not be stored for more than a day. In case of longer storage its efficiency decreases, and it can be fermented, biologically degraded.

6. Hazards identification

According to the 67/548/EEC Directive the material should be enlisted in the practically non toxic category.

7. First aid measures

After inhalation:	fresh air.
After skin contact:	wash off water.
After eye contact:	rinse out with water.

8. Accidental release measures

Person-related precautionary measures: Avoid skin contact and eye contact; do not inhale vapors.

Procedures for cleaning/absorption: Clean up affected area. Wet floor may be slippery when material is present.