

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.

Address: Ovaros ter 14. 8200 Veszprem, Hungary

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2. 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%		

3. Hazards identification

No hazardous product as specified in Directive 67/548/EEC.

4. First aid measures

After inhalation: fresh air.

After skin contact: wash off with soap and water.

After eye contact: rinse out with water for 15 minutes while eyelids open.

After swallowing (large amounts): consult doctor if feeling unwell.

5. Fire-fighting measures

Suitable extinguishing media: In adaptation to materials stored in the immediate neighbourhood.

Special risks: In fire conditions water may evaporate from this solution which may cause hazardous products to be formed as dust or fume.

6. Accidental release measures

Person-related precautionary measures: Avoid contact with skin and eyes. Do not breathe vapours. Use with adequate ventilation.

Procedures for cleaning/absorption: Spills of this product are slippery. Clean up affected area: absorb with absorbent material then wash with water to eliminate slip hazard.

7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. Dry. No further requirements. At +5°C-+25°C.

8. Exposure control/personal protection

Personal protective equipment

Respiratory protection:	use with adequate ventilation.
Eye protection:	use recommended.
Hand protection:	use recommended.
Industrial hygiene:	Wash hands after working with substance. Change contaminated clothing.

9. 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:	~ 200 °C

10. Stability and reactivity

Conditions to be avoided

Strong heating (decomposition)

Substances to be avoided

Strong oxidising agents, strong acids

Hazardous decomposition products

Carbon monoxide, carbon dioxide, ammonia and/or nitrogen oxides.

11. Toxicological information

Acute toxicity

LD₅₀ value is higher than 5,0 g/body mass kg (both in male and female rats).

Further toxicological information

Possible effects: After skin or eye contact slight irritation.
No toxic effects are to be expected when the product is handled appropriately.
The product should be handled with care usual when dealing with chemicals.

12. Ecological information

Biological degradation: Readily biodegradable.

Ecotoxic effects: Unlikely to cause harmful effects.

No ecological problems are to be expected when the product is handled and used with care and attention.

13. Disposal considerations

Product:

Chemicals must be disposed of in compliance with the respective national regulations.

Packaging:

Packaging must be disposed of in compliance with the respective national regulations.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives:

Symbol: -

R-phrases -

S-phrases -

The information contained here is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.