

SAFETY DATA SHEET



Hyfloc AP120P

Ref. 1.0/REG_EU/EN

Revision Date:
24.11.2023

Date of last issue:
Print Date:28.11.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : **Hyfloc AP120P**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-
stance/Mixture : Water treatment chemical.,

Recommended restrictions
on use : For use in industrial installations or professional treatment.

1.3 Details of the supplier of the safety data sheet

Company : JV LLC "Process and water chemicals"
Street V. Kadirov 10-A, Chirchik city, Tashkent
region, Republic of Uzbekistan. 111727

Telephone : +998933226343

E-mail address of person
responsible for the SDS : a.uteuliev@pwch.uz

1.4 Emergency telephone number

Carechem 24 International: +998933226343

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 Label elements

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to

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have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Avoid spillage on floor as the product can become very slippery when wet.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Anionic water soluble polyacrylamide

Components

Remarks : No hazardous ingredients

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
Show this safety data sheet to the doctor in attendance.
- Protection of first-aiders : No special precautions are necessary for first aid responders.
- If inhaled : Remove to fresh air.
If there is difficulty in breathing, medical advice is required.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : No hazards which require special first aid measures.
Rinse mouth with water.
Call a physician if symptoms occur.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No symptoms known or expected.

Risks : No hazards which require special first aid measures.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Symptomatic treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Product is compatible with standard fire-fighting agents.
The product itself does not burn.

Unsuitable extinguishing media : High volume water jet
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : None known.
The product itself does not burn.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Suppress (knock down) gases/vapours/mists with a water spray jet.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Further information : Forms slippery/greasy layers with water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : For personal protection see section 8.
Material can create slippery conditions.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the envi-

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ronment.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Product becomes slippery when it is wet.
Take up mechanically and collect into suitable containers for disposal.
After cleaning, flush away traces with water.

6.4 Reference to other sections

See Sections 7 and 8 for proper handling and protective measures and Section 13 for proper waste disposal measures.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Install appropriate equipment and wear appropriate personal protective equipment (see "8. Exposure control/personal protection").

Advice on safe handling : If potential for exposure exists refer to Section 8 for specific personal protective equipment.
Provide for appropriate exhaust ventilation and dust collection at machinery.
Minimize dust generation and accumulation.

Advice on protection against fire and explosion : No special precautions required.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, or smoking.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : The product is hygroscopic. Protect from moisture.

Further information on storage conditions : Aqueous solutions or powders produce extremely slippery surfaces.

Advice on common storage : No special restrictions on storage with other products.

Storage period : 24 Months

Recommended storage temperature : < 40 °C

Dampness : Keep in a dry place.

Further information on storage conditions : Recommended storage temperature for quality reasons.
The product is chemically stable.
No decomposition if stored normally.

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Packaging material : Suitable material: Polypropylene, Polyethylene, PVC, polyester with fibreglass reinforcement, stainless steel (AISI 304), acid-resistant steel (AISI 316)
Unsuitable material: To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

7.3 Specific end use(s)

Specific use(s) : For professional and industrial installation and use only.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection
Material : Nitrile rubber

Remarks : Protective gloves complying with EN 374. Permeability tests are not available for this product. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Skin and body protection : Long sleeved clothing

Respiratory protection : Dust safety masks are recommended when the dust concentration is more than 10 mg/m³.
Half mask with a particle filter P2 (EN 143)

Protective measures : Handle in accordance with good industrial hygiene and safety practice.
Wash hands and face before breaks and immediately after handling the product.
Avoid dust formation.
Do not breathe dust.
Use personal protective equipment.
Eye wash bottle or emergency eye-wash fountain must be found in the work place.

Environmental exposure controls

Water : Do not discharge large quantities of concentrated spills or residues into surface water or sanitary sewer system.
Retain and dispose of contaminated wash water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	powder
Colour	:	white
Odour	:	odourless
Odour Threshold	:	Not applicable
Melting point/freezing point	:	Decomposes before melting.
Boiling point/boiling range	:	Not applicable
Flammability	:	Not classified as a flammability hazard, Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	does not ignite
Decomposition temperature	:	> 150 °C Method: ISO 11358 No decomposition if stored and applied as directed. Hazardous decomposition products formed under fire conditions.
pH	:	6 - 8 (25 °C) Concentration: 0,5 %
Viscosity		
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility(ies)		
Water solubility	:	> 5 g/l (25 °C) Limited by viscosity.
Partition coefficient: n-octanol/water	:	log Pow: << 4 Method: OECD Test Guideline 107 Information refers to the main component.
Vapour pressure	:	Not applicable
Relative density	:	not determined

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Density	:	not determined
Bulk density	:	650 - 850 kg/m ³
Relative vapour density	:	Not applicable

9.2 Other Information

Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Minimum explosible dust concentration	:	Not applicable
Evaporation rate	:	Not applicable
Surface tension	:	Surface activity is not to be expected.

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

Conditions to avoid : Avoid contact with alkaline materials which will degrade the polymer.
Avoid moisture.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke.
Ammonia

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity : LD50 Oral: > 5 000 mg/kg
Method: OECD Test Guideline 401
Remarks: Read-across (Analogy)

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Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Albino rabbit): > 10 000 mg/kg
Method: No guideline followed

Acute toxicity (other routes of administration) :
Remarks: This information is not available.
The product contains no substances known to be hazardous to health in concentrations which need to be taken into account.

Skin corrosion/irritation

Product:

Assessment : No skin irritation
Test substance : Read-across (Analogy)
Remarks : Literary reference

Serious eye damage/eye irritation

Product:

Species : Rabbit
Assessment : No eye irritation
Method : Draize Test
Test substance : Read-across (Analogy)
Remarks : Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitisation

Product:

Test Type : Buehler Test
Exposure routes : Dermal
Species : Guinea pig
Assessment : Does not cause skin sensitisation.
Method : OECD Test Guideline 406
Result : negative
Test substance : Read-across (Analogy)

Exposure routes : Inhalation
Assessment : Does not cause respiratory sensitisation.
Method : Calculation method

Germ cell mutagenicity

Product:

Genotoxicity in vivo : Remarks: Based on available data, the classification criteria are not met.

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Carcinogenicity

Product:

Remarks : Based on available data, the classification criteria are not met.

Reproductive toxicity

Product:

Effects on fertility : Remarks: Based on available data, the classification criteria are not met.

STOT - single exposure

Product:

Remarks : Based on available data, the classification criteria are not met.

STOT - repeated exposure

Product:

Remarks : Based on available data, the classification criteria are not met.

Repeated dose toxicity

Product:

Remarks : No data available

Aspiration toxicity

Product:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

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		Exposure time: 96 h Test Type: Acute toxicity Method: OECD Test Guideline 203 Remarks: Read-across (Analogy)
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: Immobilization Test substance: Read-across (Analogy) Method: OECD Test Guideline 202
		EC50 (Acartia tonsa (copepod)): 342 mg/l Exposure time: 48 h Test Type: Immobilization Test substance: Read-across (Analogy) Method: PARCOM SOP 106
Toxicity to algae/aquatic plants	:	IC50 (Green algae (Selenastrum capricornutum)): > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201
		IC50 (Skeletonema costatum (diatom)): 2 276 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: PARCOM SOP 104
Sediment toxicity	:	EC50: 1415 mg/l Exposure duration: 10 d Species: Corophium volutator (amphipoda) Method: PARCOM SOP 102 Remarks: Read-across (Analogy)

12.2 Persistence and degradability

Product:

Biodegradability	:	Test Type: Closed Bottle test Biodegradation: < 10 % Exposure time: 28 d Method: OECD Test Guideline 306 Test substance: Read-across (Analogy) Remarks: The polymeric ingredient is not readily biodegradable.
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12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow <= 4).
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12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : Information given is based on data on the components and the ecotoxicology of similar products.
This product has no known ecotoxicological effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Recycling, recovery and reuse of materials is recommended if permitted by regulations.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Must be disposed of in accordance with local and national regulations.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

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14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Remarks : None known.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

The components of this product are reported in the following inventories:

TSCA : All components of this product are included in the United States TSCA Chemical Inventory with Active Status or are not required to be listed on the United States TSCA Chemical Inventory.

DSL : All components of this product are included in the Canada Domestic Substance List (DSL) or are not required to be listed on the Canada Domestic Substance List (DSL).

:

EINECS : All components of this product are included in the European Inventory of Existing Chemical Substances (EINECS) or are not required to be listed on EINECS.

AIIC : All components of this product are included in the Australian Inventory of Industrial Chemicals (AIIC) or are not required to be listed on the Australian Inventory of Industrial Chemicals

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	(AIIIC).
IECSC	: All components of this product are included on the Chinese inventory or are not required to be listed on the Chinese inventory.
ENCS	: All components of this product are included on the Japanese (ENCS) inventory or are not required to be listed on the Japanese (ENCS) inventory.
KECI	: All components of this product are included in the Korean (ECL) inventory or are not required to be listed on the Korean (ECL) inventory.
PICCS	: All components of this product are included on the Philippine (PICCS) inventory or are not required to be listed on the Philippine (PICCS) inventory.
NZIoC	: All components of this product are included in the New Zealand inventory (NZIoC) or are not required to be listed on the New Zealand inventory(NZIoC).
TCSI	: All components of this product are included on the Taiwan Toxic Chemical Substances Control Act Inventory.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test popula-

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tion; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Training advice : Read the safety data sheet before using the product.

Other information : Relevant changes have been marked with vertical lines.

Sources of key data used to compile the Safety Data Sheet : Regulations, databases, literature, own tests.

Classification of the mixture:

Classification procedure:

Bridging principle "Substantially similar mixtures".

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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