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Version: 5.5  
Effective date: 18/09/2020  
Previous Date: 05/06/2019

## SAFETY DATA SHEET

# BETZDEARBORN AP1120P (Hyfloc AP 120P)

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

#### 1.1. Product identifier

Trade name or designation of the mixture BETZDEARBORN AP1120P (Hyfloc AP 120P)

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Supersedes date 05/06/2019

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

Identified uses Flocculation of inorganic solids

Uses advised against None known.

#### 1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Address: Street V. Kadirov 10, Chirchik city,  
Tashkent Region, Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

Email address: info@pwch.uz

www.pwch.uz

#### 1.4. Emergency telephone number

Multilingual emergency number (24/7)

Street V. Kadirov 10, Chirchik city,  
Tashkent Region,  
Republic of Uzbekistan, 111727

Tel: +99871 209 10 40

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### 2.2. Label elements

##### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None.

Signal word None.

Hazard statements The product does not need to be labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended.

##### Precautionary statements

Prevention Not available.

Response Not available.

Storage Not available.



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Disposal	Not available.
Supplemental label information	None.
2.3. Other hazards	None known.

### SECTION 3: Composition/information on ingredients

#### Mixtures

Chemical description	Polyacrylamide Powder
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The components are not hazardous or are below required disclosure limits.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	Move to fresh air.
Skin contact	Wash off with plenty of water.
Eye contact	Immediately flush eye(s) with plenty of water.
Ingestion	Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed	Not applicable.
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4.3. Indication of any immediate medical attention and special treatment needed	Not available.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Dry chemical, CO <sub>2</sub> , water spray or regular foam. Foam or water create a slippery condition. Spread sand or grit.
Unsuitable extinguishing media	Not available.

5.2. Special hazards arising from the substance or mixture	Dust may be explosive if mixed with air in critical proportions and in the presence of a source of ignition. Ammonia, oxides of carbon and nitrogen evolved in fire.
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#### 5.3. Advice for firefighters

Special protective equipment for firefighters	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
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Special fire fighting procedures	Use standard firefighting procedures and consider the hazards of other involved materials. Prevent spillage and fire-fighting water from entering in public sewers or the immediate environment.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Protective clothing
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For emergency responders	Use personal protection recommended in Section 8 of the SDS.
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6.2. Environmental precautions	Prevent from entering sewers or the immediate environment. Accidental release of large quantities into the aquatic environment may harm aquatic organisms.
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6.3. Methods and material for containment and cleaning up	Aqueous solutions or powders that become wet produce extremely slippery conditions. Contain and recover by physical means. Flush area with water. Wet area may be slippery. Spread sand/grit.
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6.4. Reference to other sections	Please refer also to section no. 8 'Exposure controls' for further information.
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### SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Normal chemical handling. Avoid producing or diffusing dust into the air.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Keep dry. Store away from oxidisers. Store between 4 - 32 °C.
<b>7.3. Specific end use(s)</b>	Only for professional and industrial users
<b>Shelf life</b>	720 days

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Additional components	Type	Value	Form
Dust (CAS N/A)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

#### 8.2. Exposure controls

**Appropriate engineering controls** Avoid producing or diffusing dust into the air.

##### Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety goggles.  
CEN : EN 166

##### Skin protection

**- Hand protection** Protective gloves (Plastic, impervious) (Protection against unintentional short-term contact)  
Coating thickness: 0.5 mm  
Penetration time: > 480 min  
CEN : EN 420

**- Other** Protective clothing if splashing or repeated contact with product is likely.  
CEN : EN ISO 13688

**Respiratory protection** In case of insufficient ventilation, use a breathing mask with filter type: P2  
CEN : EN 140; EN 143; EN 149

**Thermal hazards** Not available.

**Environmental exposure controls** Prevent from entering in public sewers or the immediate environment.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

**Colour** Off-white

**Physical state** Powder

**Odour** None

**Odour threshold** Not available.

**pH (concentrated product)** Not available.

**pH in aqueous solution** 7 (0,5% SOL.)

**Melting point/freezing point** Not available.



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<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	< 1 (Ether = 1)
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapour pressure</b>	< 0,1 mm Hg
<b>Vapour pressure temp.</b>	21 °C
<b>Vapour density</b>	< 1 (Air = 1)
<b>Relative density</b>	Not available.
<b>Relative density temperature</b>	21 °C
<b>Solubility</b>	
<b>Solubility (water)</b>	1 %
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Viscosity temperature</b>	21 °C
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.
<b>9.2. Other information</b>	
<b>Shelf life</b>	720 days
<b>VOC</b>	0 % (Calculated)

### SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Not available.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Not applicable.
<b>10.4. Conditions to avoid</b>	Do not expose to moisture.
<b>10.5. Incompatible materials</b>	Avoid contact with strong oxidisers.
<b>10.6. Hazardous decomposition products</b>	Ammonia, oxides of carbon and nitrogen evolved in fire.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Product	Test Results
BETZDEARBORN AP1120P (Hyfloc AP 120P) (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: > 5000 mg/kg (Calculated according to GHS additivity formula)
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/irritation</b>	May be irritating to eyes.

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<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified. Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Information on likely routes of exposure</b>	
<b>Ingestion</b>	May cause irritation of the gastrointestinal tract.
<b>Inhalation</b>	Prolonged or excessive inhalation may cause respiratory tract irritation.
<b>Skin contact</b>	May be irritating to the skin.
<b>Eye contact</b>	May be irritating to eyes.
<b>Symptoms</b>	Not available.
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met.
<b>Mixture versus substance information</b>	None known.
<b>Other information</b>	Not available.

**SECTION 12: Ecological information****12.1. Toxicity**

Product	Species	Test Results
BETZDEARBORN AP1120P (Hyfloc AP 120P) (CAS Mixture)		
<b>Aquatic</b>		
Crustacea	LC50	Daphnia magna 2975 mg/l, Static Acute Bioassay, 48 hour
	NOEL	Ceriodaphnia 10 mg/l, Chronic Bioassay, 7 day Daphnia magna 315 mg/l, Static Acute Bioassay, 48 hour
Fish	0% Mortality	Bluegill sunfish 300 mg/l, Static Screen, 96 hour Rainbow trout 100 mg/l, Static Screen, 72 hour
	5% Mortality	Fathead minnow 315 mg/l, Static Acute Bioassay, 96 hour
	LC50	Fathead minnow 810 mg/l, Static Acute Bioassay, 96 hour

**12.2. Persistence and degradability**

	Testing has shown product not to be readily biodegradable.
- COD (mgO <sub>2</sub> /g)	400
- BOD 5 (mgO <sub>2</sub> /g)	2
- BOD 28 (mgO <sub>2</sub> /g)	24
- Closed Bottle Test (% Degradation in 28 days)	7 OECD 301D
- Zahn-Wellens Test (% Degradation in 28 days)	0 OECD 302B
- TOC (mg C/g)	240

**12.3. Bioaccumulative potential** Not bioaccumulating

**Partition coefficient n-octanol/water (log K<sub>ow</sub>)** Not available.

**Bioconcentration factor (BCF)** Not available.

**12.4. Mobility in soil** Not available.



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**12.5. Results of PBT and vPvB assessment** Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Contaminated packaging** According to Controlled Waste Regulations.

EWC ( European Waste Code ) recommendation : 15 01 02  
15 01 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified.  
15 01 Packaging (including separately collected municipal packaging waste).  
15 01 02 Plastic packaging.  
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

**Disposal methods/information** According to Controlled Waste Regulations.

EWC ( European Waste Code ) recommendation : 16 03 06  
16 Wastes not otherwise specified in the list.  
16 03 Off-specification batches and unused products.  
16 03 06 Organic wastes  
Depending on the origin and state of the waste, other EWC numbers may be applicable too.

### SECTION 14: Transport information

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### SECTION 15: Regulatory information

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

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

##### Authorisations



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Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

### Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

### National regulations

Not available.

### 15.2. Chemical safety assessment

Not available.

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16: Other information

### List of abbreviations

COD: Chemical Oxygen Demand  
EC-No: European Commission Number  
IATA: International Air Transport Association  
IMDG Code: International Maritime Dangerous Goods Code.  
CAS: Chemical Abstract Service.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
CEN: European Committee for Standardization (Comité Européen de Normalisation).  
TWA: Time Weighted Average.  
STEL: Short-term Exposure Limit.  
LD50: Lethal Dose 50%.  
LC50: Lethal Concentration 50%.  
EC50: Effective Concentration 50%.  
NOEL: No observed effect level.  
BOD: Biochemical oxygen demand.  
TOC: Total Organic Carbon.  
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).

### References

Safety data sheets of raw materials.

### Information on evaluation method leading to the classification of mixture

The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).

### Full text of any H-statements not written out in full under Sections 2 to 15

None.

### Revision information

This document has undergone significant changes and should be reviewed in its entirety.

### Training information

Provide training on safe handling while considering the type of application and exposure scenarios.



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**Based on EC Directive /  
Regulations**

(EC) No 1907/2006 (REACH)  
(EU) 2015/830  
(EC) No 1272/2008  
(EU) No 1357/2014

**Further information**

Correction in Section: 8,11