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Version: 5.3  
Effective date: 11/06/2019  
Previous Date: 01/03/2018

## SAFETY DATA SHEET

# BETZDEARBORN AP1140P (Hyfloc AP 140P)

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

#### 1.1. Product identifier

**Trade name or designation of the mixture** BETZDEARBORN AP1140P (Hyfloc AP 140P)

**Version number** 5.3

**Revision date** 11/06/2019

**Supersedes date** 01/03/2018

#### 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 EC directives or respective national laws.

##### Precautionary statements

**Prevention** Not available.

**Response** Not available.

**Storage** Not available.



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<b>Disposal</b>	Not available.
<b>Supplemental label information</b>	None.
<b>2.3. Other hazards</b>	None known.

### SECTION 3: Composition/information on ingredients

#### Mixtures

<b>Chemical description</b>	Polyacrylamides, non-ionic
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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

<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off with plenty of water.
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 15 minutes.
<b>Ingestion</b>	Rinse mouth.

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

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam.
<b>Unsuitable extinguishing media</b>	Not available.

<b>5.2. Special hazards arising from the substance or mixture</b>	Oxides of carbon and nitrogen evolved in fire.
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#### 5.3. Advice for firefighters

<b>Special protective equipment for firefighters</b>	Self contained breathing apparatus. (CEN : EN 137) Protective clothing (CEN : EN 469) Protective gloves (CEN : EN 659) Helmet (CEN : EN 443)
<b>Special fire fighting procedures</b>	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.

### SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	Protective clothing
<b>For emergency responders</b>	Use personal protection recommended in Section 8 of the SDS.

<b>6.2. Environmental precautions</b>	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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<b>6.3. Methods and material for containment and cleaning up</b>	Contain and recover by physical means. Aqueous solutions or powders that become wet produce extremely slippery conditions. Remove small spills with plenty of water.
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<b>6.4. Reference to other sections</b>	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>	Handle in accordance with good industrial hygiene and safety procedures.
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<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Reasonable and safe chemical storage. Keep dry. Store containers closed when not in use. 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/m3	Respirable dust.
		10 mg/m3	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** Ensure good ventilation.

##### 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)  
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** White

**Physical state** Powder

**Odour** None

**Odour threshold** Not available.

**pH in aqueous solution** 7,1 (0,5% SOL.)

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

**Initial boiling point and boiling range** Not available.

**Flash point** Not applicable.

**Evaporation rate** < 1 (Ether = 1)

**Flammability (solid, gas)** Not applicable.



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### Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.

Vapour pressure	< 0,1 mm Hg
Vapour pressure temp.	21 °C
Vapour density	< 1 (Air = 1)
Relative density	Not available.
Relative density temperature	21 °C

### Solubility

Solubility (water)	5 %
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Partition coefficient (n-octanol/water)	Not available.
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Auto-ignition temperature	Not applicable.
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Decomposition temperature	Not available.
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Viscosity	Not applicable.
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Viscosity temperature	21 °C
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Explosive properties	Not available.
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Oxidising properties	Not available.
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### 9.2. Other information

Shelf life	720 days
VOC	0 % (Calculated)

## SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
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10.2. Chemical stability	Material is stable under normal conditions.
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10.3. Possibility of hazardous reactions	Not applicable.
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10.4. Conditions to avoid	No special requirement.
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10.5. Incompatible materials	Avoid contact with strong oxidisers.
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10.6. Hazardous decomposition products	Oxides of carbon and nitrogen evolved in fire.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Product

BETZDEARBORN AP1140P (Hyfloc AP 140P) (Mixture)

#### Test Results

Acute Dermal LD50 Rabbit: > 2000 mg/kg (Calculated according to GHS additivity formula)

Acute Inhalation LC50 Rat: > 20 mg/l 4 hour (Calculated according to GHS additivity formula)

Acute Oral LD50 Rat: > 2000 mg/kg (Calculated according to GHS additivity formula)

Acute toxicity	Not classified.
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Skin corrosion/irritation	Not classified.
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Serious eye damage/irritation	May be irritating to eyes.
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Respiratory or skin sensitisation	Not classified.
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## BETZDEARBORN AP1140P (Hyfloc AP 140P)

**Specific target organ toxicity - repeated exposure** Not classified.

**Specific target organ toxicity - single exposure** Not classified.

**Carcinogenicity** Not classified.

**Germ cell mutagenicity** Not classified.

**Reproductive toxicity** Not classified.

### Information on likely routes of exposure

**Ingestion** May cause irritation of the gastrointestinal tract.

**Inhalation** Prolonged or excessive inhalation may cause respiratory tract irritation.

**Skin contact** May be irritating to the skin.

**Eye contact** May be irritating to eyes.

**Symptoms** Not available.

**Aspiration hazard** Not classified.

**Mixture versus substance information** None known.

**Other information** Not available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Product	Species	Test Results	
BETZDEARBORN AP1140P (Hyfloc AP 140P) (CAS Mixture)			
<b>Aquatic</b>			
Crustacea	0% Mortality	Daphnia magna	500 mg/l, Static Acute Bioassay, 48 hour
	EC50	Daphnia magna	432 mg/l, Static Acute Bioassay, 48 hour
	LC50	Ceriodaphnia	518 mg/l, Static Acute Bioassay, 48 hour
	NOEL	Ceriodaphnia	250 mg/l, Static Acute Bioassay, 48 hour
Fish	0% Mortality	Fathead minnow	500 mg/l, Static Acute Bioassay, 96 hour

### 12.2. Persistence and degradability

< 70 % degradation in 28 days  
CO2 Evolution (Modified Sturm Test) (OECD 301B)  
Testing has shown product not to be readily biodegradable.  
(Based on test with similar products)

**12.3. Bioaccumulative potential** Not bioaccumulating  
Because of the high molecular weight of the polymer diffusion through biological membranes is very small.

**Partition coefficient n-octanol/water (log Kow)** Not available.

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

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

**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



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<b>Contaminated packaging</b>	According to Controlled Waste Regulations.  EWC ( European Waste Code ) recommendation : 15 01 02 15 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.
<b>Disposal methods/information</b>	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

**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.



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**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

- EC-No: European Commission Number
- COD: Chemical Oxygen Demand
- IATA: International Air Transport Association
- 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).
- IMDG Code: International Maritime Dangerous Goods Code.
- 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

Composition / Information on Ingredients: Potential Compounds Formed  
 SECTION 3: Composition/information on ingredients: Composition comments  
 SECTION 4: First aid measures: Skin contact  
 SECTION 6: Accidental release measures: For emergency responders  
 SECTION 12: Ecological information: Persistence and degradability  
 SECTION 16: Other information: Further information  
 SECTION 16: Other information: List of abbreviations  
 HazReg Data: Europe - EU



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## **SAFETY DATA SHEET**

# **BETZDEARBORN AP1140P (Hyfloc AP 140P)**

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<b>Training information</b>	Provide training on safe handling while considering the type of application and exposure scenarios.
<b>Based on EC Directive / Regulations</b>	(EC) No 1907/2006 (REACH) (EU) 2015/830 (EC) No 1272/2008 (EU) No 1357/2014
<b>Further information</b>	Correction in Section: 2,16