

Version: 54

Effective date: 06/05/2020 Previous Date: 30/10/2018

SAFETY DATA SHEET

BETZDEARBORN CP1155 (Hyfloc CP 155)

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

1.1. Product identifier

Trade name or designation

BETZDEARBORN CP1155 (Hyfloc CP 155)

of the mixture

Version number 5.4

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

Identified uses This product contains a nanoscale material.

Organic sludge dewatering

None known. Uses advised against

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

Hazard statements The product does not need to be labelled in accordance with EC directives or respective national

laws.

Precautionary statements

Not available. Prevention Not available. Response Not available. Storage



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Disposal Not available.

EUH210 - Safety data sheet available on request. Supplemental label information

2.3. Other hazards

SECTION 3: Composition/information on ingredients

Mixtures

Chemical description Polyacrylamide Powder

ennical description	1 diyadiyidinide 1 dwadi				
Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Adipic acid	1 - < 2,5	124-04-9 204-673-3	01-2119457561-38	607-144-00-9	
Classification:	Eye Irrit. 2;H319				
Sulphamic acid	1 - < 2,5	5329-14-6 226-218-8	01-2119488633-28	016-026-00-0	
Classification:	Skin Irrit. 2;H315, Eye I	rrit. 2;H319, Aquatio	Chronic 3;H412		

The classification of the above substance(s) is given, including the hazard class, category code and hazard statements which are assigned in accordance with their physicochemical, health and environmental hazards. Please refer to section 16 where the full text of each relevant H-statement is listed.

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.

Immediately flush eye(s) with plenty of water. Eye contact

Ingestion Rinse mouth. 4.2. Most important symptoms Not applicable.

and effects, both acute and

delayed

Not available.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

5.1. Extinguishing media

Dry chemical, CO2, water spray or regular foam. Suitable extinguishing Foam or water create a slippery condition. media

media

Unsuitable extinguishing Not available.

5.2. Special hazards arising

Hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

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.

5.3. Advice for firefighters

Special protective Self contained breathing apparatus. (CEN: EN 137)

Protective clothing (CEN: EN 469) equipment for firefighters

Protective gloves (CEN: EN 659)

Helmet (CEN: EN 443)

Special fire fighting

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 procedures

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

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.

6.3. Methods and material for containment and cleaning up

Spills of the product are very slippery. Contain and recover by physical means.

6.4. Reference to other

sections

Please refer also to section no. 8 'Exposure controls' for further information.

SECTION 7: Handling and storage

7.1. Precautions for safe

Arrange for eye wash possibility.

handling Handle in accordance with good industrial hygiene and safety procedures.

Spills are very slippery.

7.2. Conditions for safe storage, including any incompatibilities

Do not freeze.

If frozen, thaw completely and mix thoroughly prior to use.

Store in original package. Store in dry, cool area. Store between 0 - 35 °C.

Keep away from strong acids and oxidizers.
Only for professional and industrial users

Shelf life 720 days

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

7.3. Specific end use(s)

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)

Workers

Components	Value	Assessment factor	Notes
Adipic acid (CAS 124-04-9)			
Long-term, Local, Inhalation	5 mg/m3		
Long-term, Systemic, Dermal	38 mg/kg	20	
Long-term, Systemic, Inhalation	264 mg/m3	5	
Short-term, Local, Inhalation	5 mg/m3		
Short-term, Systemic, Dermal	38 mg/kg	20	
Short-term, Systemic, Inhalation	264 mg/m3	5	
Sulphamic acid (CAS 5329-14-6)			
Long-term, Systemic, Dermal	10 mg/kg bw/day	100	Repeated dose toxicity
Long-term, Systemic, Inhalation	70,5 mg/m3	25	Repeated dose toxicity
dicted no effect concentrations (PNECs)			
Components	Value	Assessment factor	Notes
Adipic acid (CAS 124-04-9)			
Freshwater	0.126 mg/l	50	

100

500

0,46 mg/l

0,0126 mg/l

Intermittent releases

Marine water



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0,484 mg/kg Sediment (freshwater) Sediment (marine water) 0,0484 mg/kg Soil 0,0228 mg/kg STP 59,1 mg/l

Sulphamic acid (CAS 5329-14-6)

10 Freshwater 1,8 mg/l Intermittent releases 0,48 mg/l 100 Marine water 0,18 mg/l 100

Sediment (freshwater) 8,36 mg/kg Sediment (marine water) 0,84 mg/kg

10 Soil 5 mg/kg STP 20 mg/l 10

8.2. Exposure controls

Avoid producing or diffusing dust into the air. Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

Eye/face protection Safety goggles.

CEN: EN 166

Skin protection

Protective gloves (Plastic, impervious) (Protection against unintentional short-term contact) - Hand protection

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

In case of insufficient ventilation, use a breathing mask with filter type: P2 Respiratory protection

CEN: EN 140; EN 143; EN 149

Thermal hazards Not available.

Environmental exposure

controls

Prevent from entering in public sewers or the immediate environment.

10

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

White to off-white Colour

Physical state Powder Slight Odour

Odour threshold Not available. pH (concentrated product) Not available. 3 (0,5% SOL.) pH in aqueous solution Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Flash point P-M(CC) None < 1 (Ether = 1)**Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Not available.

Flammability limit - lower

Not available.

Flammability limit - upper (%)

< 1 mm Hg Vapour pressure 21 °C Vapour pressure temp.

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< 1 (Air = 1) Vapour density Relative density Not available. 21 °C

Relative density temperature

Solubility

1 % Solubility (water) < 0 Partition coefficient

(n-octanol/water)

Not applicable. **Auto-ignition temperature Decomposition temperature** Not available. Not applicable. **Viscosity** 21 °C Viscosity temperature

Explosive properties Not available. Not available. **Oxidising properties**

9.2. Other information

720 days Shelf life

VOC 0 % (Estimated)

SECTION 10: Stability and reactivity

Not available. 10.1. Reactivity

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

Not applicable.

10.4. Conditions to avoid Keep away from all sources of ignition. Avoid contact with strong oxidisers. 10.5. Incompatible materials

Hydrogen chloride, oxides of carbon and nitrogen evolved in fire. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicolog	gical effects		
Product		Test Results	
BETZDEARBORN CP1155 (Hyfloc CP 155) (Mixture)		Acute Dermal LD50 Rabbit: > 5000 mg/kg (Calculated according to GHS additivity formula)	
		Acute Inhalation LC50 Rat: > 5 mg/l 4 hour (Calculated according to GHS additivity formula)	
		Acute Oral LD50 Rat: > 5000 mg/kg (Calculated according to GHS additivity formula)	
Components		Test Results	
Adipic acid (124-04-9)		Acute Dermal LD50 Rabbit: > 2000 mg/kg	
		Acute Inhalation LC50 Rat: > 7,7 mg/l 4 hour	
		Acute Oral LD50 Rat: > 2000 mg/kg	
Sulphamic acid (5329-14-6)		Acute Dermal LD50 Rabbit: > 2000 mg/kg	
		Acute Oral LD50 Rat: 2140 mg/kg	
Acute toxicity	Based on available data, the classification criteria are not met.		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/irritation	May be irritating to eyes.		
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.		

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

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Specific target organ toxicity -

repeated exposure



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Specific target organ toxicity -

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

single exposure

CarcinogenicityBased on available data, the classification criteria are not met.Germ cell mutagenicityBased on available data, the classification criteria are not met.Reproductive toxicityBased on available data, the classification criteria are not met.

Information on likely routes of exposure

IngestionMay cause irritation of the gastrointestinal tract.InhalationMay cause irritation to the respiratory system.

Skin contactMay be irritating to the skin.Eye contactMay be irritating to eyes.

Aspiration hazard Based on available data, the classification criteria are not met.

Mixture versus substance

information

Symptoms

None known.

Not available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity

Product		Species	Test Results	
BETZDEARBORN CP115	5 (Hyfloc CP 155) (CAS Mixture)		
Aquatic				
Crustacea	EC50	Daphnia magna	20 - 50 mg/l, 48 hour, (OECD 2	202)

12.2. Persistence and degradability

At natural pHs (>6) the product degrades due to hydrolysis to more than 70% in 28 days.

5 - 10 mg/l, 96 hour, (OECD 203)

The hydrolysis products are not harmful to aquatic organisms.

12.3. Bioaccumulative potential Not bioaccumulating

Partition coefficient n-octanol/water (log Kow)

Fish

BETZDEARBORN CP1155 (Hyfloc CP 155) < 0 Adipic acid 0,08

LC50

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.

Danio rerio

12.6. Other adverse effects Not available.

SummaryThe effects of this product on aquatic organisms are rapidly and significantly reduced through

hydrolysis and by the presence of dissolved organic carbon and inorganic sorbents such as clays

and silts in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

EWC (European Waste Code) recommendation: 15 01 01, 15 01 02, 15 01 05

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 01 paper and cardboard packaging

15 01 02 Plastic packaging.15 01 05 Composite packaging.

Depending on the origin and state of the waste, other EWC numbers may be applicable too.



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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

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

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.

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.

Other regulations The product does not need to be labelled in accordance with EC directives or respective national

laws.

National regulations Not available.

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Nο

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15.2. Chemical safety

Not available.

assessment

Inventory status

Country(s) or region Inventory name On inventory (yes/no)*

Europe European Inventory of Existing Commercial Chemical Yes

Substances (EINECS)

Europea List of Notified Chemical Substances (ELINCS)

*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

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 merchandises 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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Revision information SECTION 2: Hazards identification: Classification according to Regulation (EC) No 1272/2008

Composition / Information on Ingredients: Disclosure Overrides SECTION 8: Exposure controls/personal protection: - Hand protection

SECTION 11: Toxicological information: Acute toxicity SECTION 11: Toxicological information: Carcinogenicity SECTION 11: Toxicological information: Skin corrosion/irritation SECTION 11: Toxicological information: Germ cell mutagenicity SECTION 11: Toxicological information: Reproductive toxicity

SECTION 11: Toxicological information: Respiratory or skin sensitisation

SECTION 11: Toxicological information: Specific target organ toxicity - repeated exposure SECTION 11: Toxicological information: Specific target organ toxicity - single exposure

SECTION 16: Other information: Further information

GHS: Classification

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

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Based on EC Directive /

(EC) No 1907/2006 (REACH)

Regulations

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

Further information

Correction in Section: 8,11

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