



P&WC

## SAFETY DATA SHEET

# KLARAID PC1192 (Hycog OC 192)

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

#### 1.1. Product identifier

Trade name or designation of the mixture      KLARAID PC1192 (Hycog OC 192)

Version number      6.4

Revision date      30/09/2020

Supersedes date      22/02/2018

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

Identified uses      Coagulant

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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<b>Disposal</b>	Not available.
<b>Supplemental label information</b>	EUH210 - Safety data sheet available on request.
<b>2.3. Other hazards</b>	None known.

**SECTION 3: Composition/information on ingredients**

**Mixtures**

**Chemical description** Cationic polymer in aqueous solution

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
N,N-Dimethyl-N-2-propenyl-2-propen-1-amonium chloride homopolymer	10 - < 25	26062-79-3	-	-	

**Classification:** Aquatic 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**

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

**4.2. Most important symptoms and effects, both acute and delayed** Not available.

**4.3. Indication of any immediate medical attention and special treatment needed** Not available.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

<b>Suitable extinguishing media</b>	Dry chemical, CO2, water spray or regular foam. Foam or water create a slippery condition. Spread sand or grit.
<b>Unsuitable extinguishing media</b>	Not available.

**5.2. Special hazards arising from the substance or mixture** Hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

**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>	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.

**6.2. Environmental precautions** Prevent from entering sewers or the immediate environment.  
Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.



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<b>6.3. Methods and material for containment and cleaning up</b>	Spills of the product are very slippery. Absorb onto inert material and dispose of according to Controlled Waste Regulations. Remove small spills with plenty of water.
<b>6.4. Reference to other sections</b>	Please refer also to section no. 8 'Exposure controls' for further information.

#### SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Normal chemical handling.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Store in cool, well ventilated area. Protect from freezing. Store containers closed when not in use.
<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

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Recommended monitoring procedures</b>	Not available.
<b>Derived no effect levels (DNELs)</b>	Not available.
<b>Predicted no effect concentrations (PNECs)</b>	Not available.

##### 8.2. Exposure controls

<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety procedures.
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##### Individual protection measures, such as personal protective equipment

<b>Eye/face protection</b>	Safety goggles. CEN : EN 166
<b>Skin protection</b>	
- 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
<b>Respiratory protection</b>	Not required.
<b>Thermal hazards</b>	Not available.
<b>Environmental exposure controls</b>	Prevent from entering in public sewers or the immediate environment. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

#### SECTION 9: Physical and chemical properties

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

###### Appearance

<b>Colour</b>	Yellow
<b>Physical state</b>	Liquid
<b>Odour</b>	Mild
<b>Odour threshold</b>	Not available.
<b>pH (concentrated product)</b>	6,3
<b>pH in aqueous solution</b>	6,2 (5% SOL.)
<b>Melting point/freezing point</b>	-1 °C



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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>	18 mm Hg
<b>Vapour pressure temp.</b>	21 °C
<b>Vapour density</b>	< 1 (Air = 1)
<b>Relative density</b>	1,03
<b>Relative density temperature</b>	21 °C
<b>Solubility</b>	
<b>Solubility (water)</b>	100 %
<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>	168 cps
<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>Pour point</b>	2 °C
<b>Shelf life</b>	720 days
<b>VOC</b>	0 % (ASTM 3960-93)

### 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>	Protect from freezing.
<b>10.5. Incompatible materials</b>	Avoid contact with strong oxidisers.
<b>10.6. Hazardous decomposition products</b>	Hydrogen chloride, oxides of carbon and nitrogen evolved in fire.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Product	Test Results
KLARAID PC1192 (Hycog OC 192) (Mixture)	Acute Oral LD50 Rat: > 5000 mg/kg (Calculated according to GHS additivity formula)
Components	Test Results
N,N-Dimethyl-N-2-propenyl-2-propen- 1-amonium chloride homopolymer (26062-79-3)	Acute Oral LD50 Rat: 3000 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.

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<b>Serious eye damage/irritation</b>	May be irritating to eyes.
<b>Respiratory or skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	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		
KLARAID PC1192 (Hycog OC 192) (CAS Mixture)				
<b>Aquatic</b>				
Crustacea	LC50	Ceriodaphnia	9,3 mg/l, Static Acute Bioassay, 48 hour, (With Humic Acid)	
		Daphnia magna	32 mg/l, Static Acute Bioassay, 48 hour, (With Humic Acid)	
		Mysid Shrimp	628,5 mg/l, Static Renewal Bioassay, 48 hour	
	LOEL	Ceriodaphnia	2 mg/l, Chronic Bioassay, 7 day	
		NOEL	Ceriodaphnia	6,25 mg/l, Static Acute Bioassay, 48 hour, (With Humic Acid)
	Daphnia magna	NOEL		1 mg/l, Chronic Bioassay, 7 day
				15,6 mg/l, Static Acute Bioassay, 48 hour, (With Humic Acid)
		Mysid Shrimp		125 mg/l, Static Renewal Bioassay, 48 hour
	Fish	LC50	Fathead minnow	3,8 mg/l, Static Acute Bioassay, 96 hour, (With Humic Acid)
			Rainbow trout	14,1 mg/l, Static Acute Bioassay, 96 hour, (With Humic Acid)
LOEL		Fathead minnow	2 mg/l, Chronic Bioassay, 7 day	
		NOEL	Fathead minnow	2,5 mg/l, Static Acute Bioassay, 96 hour, (With Humic Acid)
			1 mg/l, Chronic Bioassay, 7 day	



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Product	Species	Test Results
	Rainbow trout	10 mg/l, Static Acute Bioassay, 96 hour, (With Humic Acid)
	Sheepshead minnow	2000 mg/l, Static Renewal Bioassay, 96 hour

**12.2. Persistence and degradability**

- COD (mgO<sub>2</sub>/g) 270
- BOD 5 (mgO<sub>2</sub>/g) 0
- BOD 28 (mgO<sub>2</sub>/g) 7
- Closed Bottle Test (% Degradation in 28 days) 3
- Zahn-Wellens Test (% Degradation in 28 days) 6
- TOC (mg C/g) 90

**12.3. Bioaccumulative potential** Not available.

**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**

**Contaminated packaging** According to Controlled Waste Regulations.  
 EWC ( European Waste Code ) recommendation : 15 01 02; 15 01 04  
 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.  
 15 01 04 Metallic 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.



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### 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.

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  
IATA: International Air Transport Association  
CAS: Chemical Abstract Service.  
EC-No: European Commission Number  
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.



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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

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

Safety data sheets of raw materials.

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

H412 Harmful to aquatic life with long lasting effects.

#### 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.

#### 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: 11