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# SAFETY DATA SHEET

## KLARAID CDP1366 (Hycog IC 185)

Version: 1.1  
Effective date: 17/02/2018  
Previous Date: 09/06/2015

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

#### 1.1. Product identifier

Trade name or designation of the mixture      KLARAID CDP1366 (Hycog IC 185)

Date of first issue      09/06/2015

Version number      1.1

Revision date      17/02/2018

Supersedes date      09/06/2015

#### 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

##### Physical hazards

Corrosive to metals      Category 1      H290 - May be corrosive to metals.

##### Health hazards

Serious eye damage/eye irritation      Category 1      H318 - Causes serious eye damage.

#### 2.2. Label elements

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

Contains:      Aluminum chloride, basic



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### Hazard pictograms



### Signal word

Danger

### Hazard statements

H290 May be corrosive to metals.  
H318 Causes serious eye damage.

### Precautionary statements

#### Prevention

P234 Keep only in original container.  
P280 Wear eye/face protection.

#### Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTRE or doctor/physician.  
P390 Absorb spillage to prevent material damage.

#### Storage

P406 Store in corrosive resistant container with a resistant inner liner.

#### Disposal

Not available.

### Supplemental label information

None.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### Mixtures

**Chemical description** Aqueous solution of inorganic salts

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Aluminum chloride, basic	30 - < 40	1327-41-9 215-477-2	01-2119531563-43	-	

**Classification:** Met. Corr. 1;H290, Eye Dam. 1;H318

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.  
Call a POISON CENTRE or doctor/physician if you feel unwell.

**Skin contact** Wash off with plenty of water.  
Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes.  
Call a physician or poison control centre immediately.

**Ingestion** Rinse mouth.  
Do not give anything to eat or drink.  
Do not induce vomiting.  
Call a physician or poison control centre immediately.

**4.2. Most important symptoms and effects, both acute and delayed** Causes serious eye damage.

**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, CO2, water spray or regular foam.

**Unsuitable extinguishing media** None.

**5.2. Special hazards arising from the substance or mixture** Hydrogen chloride gas (HCl).

#### 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)

**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.

### SECTION 6: Accidental release measures

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

**For non-emergency personnel** Wear protective clothing, gloves and safety goggles.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS.

**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** Absorb onto inert material and dispose of according to Hazardous Waste Regulations.  
After cleaning, flush away traces with water.

**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 handling** Handle in accordance with good industrial hygiene and safety procedures.  
Avoid contact with eyes.

**7.2. Conditions for safe storage, including any incompatibilities** Keep containers tightly closed in a cool, well-ventilated place.  
Store in corrosive resistant container with a resistant inner liner.  
Do not store at elevated temperatures.

**7.3. Specific end use(s)** Only for professional and industrial users

**Shelf life** 270 days

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

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

Components	Type	Value
Aluminum chloride, basic (CAS 1327-41-9)	TWA	2 mg/m3

**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
Aluminum chloride, basic (CAS 1327-41-9)			
Long-term, Systemic, Inhalation	20.2 mg/m3	25	



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### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Aluminum chloride, basic (CAS 1327-41-9)			
Freshwater	0.3 µg/l	50	
Marine water	0.03 µg/l	500	
STP	20 mg/l	10	

### 8.2. Exposure controls

**Appropriate engineering controls** Adequate ventilation to maintain air contaminants below exposure limits.

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

<b>Eye/face protection</b>	Splash proof chemical goggles. CEN : EN 166
<b>Skin protection</b>	
- Hand protection	Neoprene gloves (Protection against unintentional short-term contact) Nitrile gloves (Protection against unintentional short-term contact) CEN : EN 374-1/2/3/4; EN 420
- Other	Protective clothing. CEN : EN ISO 13688; EN ISO 6529; EN 14605
<b>Respiratory protection</b>	In case of insufficient ventilation, use a breathing mask with filter type: P2 CEN : EN 140; EN 143; EN 149
<b>Thermal hazards</b>	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** Yellow

**Physical state** Liquid

**Odour** Slight

**Odour threshold** Not available.

**pH (concentrated product)** < 1

**pH in aqueous solution** 3,9 (5% SOL.)

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

**Initial boiling point and boiling range** 102 °C

**Flash point** Not applicable.

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

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

#### Upper/lower flammability or explosive limits

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

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

**Vapour pressure** 18 mm Hg

**Vapor pressure temp.** 21 °C

**Vapour density** < 1 (Air = 1)

**Relative density** 1,35

**Relative density temperature** 21 °C

#### Solubility

**Solubility (water)** 100 %



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<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.

### 9.2. Other information

<b>Shelf life</b>	270 days
<b>VOC</b>	0 % (Estimated)

### 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>	High temperatures.
<b>10.5. Incompatible materials</b>	None known.
<b>10.6. Hazardous decomposition products</b>	Hydrogen chloride.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Product	Test results
KLARAIID CDP1366 (Hycog IC 185) (Mixture)	Acute Dermal LD50 Rabbit: > 2000 mg/kg (Calculated according to GHS additivity) Acute Inhalation LC50 Rat: > 5 mg/l 4 hours (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: > 2000 mg/kg (Calculated according to GHS additivity)
Components	Test results
Aluminum chloride, basic (1327-41-9)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Inhalation LC50 Rat: > 5 mg/l 4 hour Acute Oral LD50 Rat: > 2000 mg/kg

<b>Acute toxicity</b>	Not classified.
<b>Skin corrosion/irritation</b>	Not classified.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<b>Respiratory or skin sensitisation</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Germ cell mutagenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not classified.

#### Information on likely routes of exposure

<b>Ingestion</b>	May cause irritation of the gastrointestinal tract.
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Inhalation	Prolonged or repeated exposure may cause transient irritation.
Skin contact	Prolonged or repeated contact may cause transient irritation.
Eye contact	Causes serious eye damage.
Symptoms	Not available.
Aspiration hazard	Not classified.
Mixture versus substance information	None known.
Other information	Not available.

### SECTION 12: Ecological information

12.1. Toxicity	No data available
12.2. Persistence and degradability	No data is available on the degradability of this product.
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 Hazardous Waste Regulations.  EWC ( European Waste Code ) recommendation : 15 01 10 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 10 Packaging containing residues of or contaminated by dangerous substances. Depending on the origin and state of the waste, other EWC numbers may be applicable too.
Disposal methods/information	According to Hazardous Waste Regulations.  EWC ( European Waste Code ) recommendation : 16 03 03 16 Wastes not otherwise specified in the list. 16 03 Off-specification batches and unused products. 16 03 03 Inorganic wastes containing dangerous substances. Depending on the origin and state of the waste, other EWC numbers may be applicable too.

### SECTION 14: Transport information

#### ADR

14.1. UN number	UN3264
14.2. UN proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic, Mixture)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Tunnel restriction code	(E)
14.6. Special precautions for user	Not available.

#### RID

14.1. UN number	UN3264
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**14.2. UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic, Mixture)  
**14.3. Transport hazard class(es)** 8  
**Subsidiary class(es)** -  
**14.4. Packing group** III  
**14.5. Environmental hazards** No  
**14.6. Special precautions for user** Not available.

### ADN

**14.1. UN number** UN3264  
**14.2. UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic, Mixture)  
**14.3. Transport hazard class(es)** 8  
**Subsidiary class(es)** -  
**14.4. Packing group** III  
**14.5. Environmental hazards** No  
**14.6. Special precautions for user** Not available.

### IATA

**14.1. UN number** UN3264  
**14.2. UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic, Mixture)  
**14.3. Transport hazard class(es)** 8  
**Subsidiary class(es)** -  
**14.4. Packing group** III  
**14.5. Environmental hazards** No  
**ERG Code** Not available.  
**14.6. Special precautions for user** Not available.

### IMDG

**14.1. UN number** UN3264  
**14.2. UN proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Aluminum chloride, basic, Mixture)  
**14.3. Transport hazard class(es)** 8  
**Subsidiary class(es)** -  
**14.4. Packing group** III  
**14.5. Environmental hazards**  
**Marine pollutant** No  
**EmS No.** F-A, S-B  
**14.6. Special precautions for user** Not available.  
**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code** This substance/mixture is not intended to be transported in bulk.



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ADN; ADR; IATA; IMDG; RID



### 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**

Not listed.

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

Not listed.

##### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**

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**

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).





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Effective date: 17/02/2018

Previous Date: 09/06/2015

### SECTION 16: Other information

#### List of abbreviations

EC-No: European Commission Number  
COD: Chemical Oxygen Demand  
IATA: International Air Transport Association  
Safety data sheets of raw materials.

#### References

#### 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

H290 May be corrosive to metals.  
H318 Causes serious eye damage.

#### Revision information

Product and Company Identification: Alternate Name/Document Information

#### Training information

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

#### Based on EC Directive / Regulations

2001/118/EC  
(EC) No 1907/2006 (REACH)  
(EU) 2015/830  
(EC) No 1272/2008

#### Further information

Initial issue