



# SAFETY DATA SHEET

## CORTROL OS5601

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

#### 1.1. Product identifier

Trade name or designation of the mixture      CORTROL OS5601

Version number      9.5

Revision date      21/02/2022

Supersedes date      01/10/2020

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

Identified uses      Organic oxygen scavenger

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, city Chirchik, Region

Tashkent Republic of Uzbekistan, 111702

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, city Chirchik, Region Tashkent

Republic of Uzbekistan, 111702

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

##### Health hazards

Skin sensitisation

Category 1B

H317 - May cause an allergic skin reaction.

#### 2.2. Label elements

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

Contains:      Carbohydrazide

##### Hazard pictograms



Signal word

Warning

Hazard statements



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H317 May cause an allergic skin reaction.

### Precautionary statements

#### Prevention

P280 Wear protective gloves.

#### Response

P302 + P352 IF ON SKIN: Wash with plenty of water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

#### Storage

Not available.

#### Disposal

Not available.

Supplemental label information None.

2.3. Other hazards None known.

## SECTION 3: Composition/information on ingredients

### Mixtures

Chemical description Solution of hydrazine derivative

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Carbohydrazide	5 - < 10	497-18-7 207-837-2	01-2119965166-31	-	

**Classification:** Skin Sens. 1B;H317

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** Take off immediately all contaminated clothing.  
 Wash off immediately with plenty of water for at least 15 minutes.  
 Get medical attention immediately.  
**Eye contact** Immediately flush eye(s) with plenty of water.  
**Ingestion** Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed May cause allergic skin reaction.

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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
**Unsuitable extinguishing media** None.

5.2. Special hazards arising from the substance or mixture Oxides of carbon and nitrogen evolved in fire.

### 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.

### 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. Do not empty into drains, dispose of this material and its container to hazardous or special waste collection point.

**6.3. Methods and material for containment and cleaning up** Absorb onto inert material and dispose of according to Hazardous Waste Regulations. Flush area with water. Spread sand/grit.

**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** Contact with oxidisers, peroxide and metal oxide may result in a violent reaction. Avoid contact with high pH products and any metal (such as Al, Cu, LCS), except for stainless steel. This accelerates decomposition to hydrazine.

**7.2. Conditions for safe storage, including any incompatibilities** Store containers closed when not in use. Store in cool, well ventilated area. Keep away from heat. Protect from sunlight. Maximum storage temperature 35 °C.

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

**Shelf life** 360 Days

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits** No exposure limits noted for ingredient(s).

**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
Carbohydrazide (CAS 497-18-7)			
Long-term, Systemic, Dermal	0,75 mg/kg	100	
Long-term, Systemic, Inhalation	2,64 mg/m3	25	

#### Predicted no effect concentrations (PNECs)

Components	Value	Assessment factor	Notes
Carbohydrazide (CAS 497-18-7)			
Freshwater	1,5 µg/l	1000	
Intermittent releases	0,015 mg/l	100	
Marine water	0,15 µg/l	10000	
STP	2,5 mg/l	10	

#### 8.2. Exposure controls

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

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

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



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<b>Skin protection</b>	
- Hand protection	Neoprene gloves (Protection against unintentional short-term contact) Nitrile gloves (Protection against unintentional short-term contact) Coating thickness: 0.4 mm Penetration time: > 480 min 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 face mask with breathing filter, type: P2 CEN : EN 140; EN 143; EN 149
<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

Colour	Colourless
Physical state	Liquid
Odour	Odourless.
Odour threshold	Not available.
pH (concentrated product)	7,4 Neat
pH in aqueous solution	Not available.
Melting point/freezing point	-2 °C
Initial boiling point and boiling range	99 °C
Flash point	Not applicable.
Evaporation rate	Slower than Ether
Flammability (solid, gas)	Not applicable.

##### Upper/lower flammability or explosive limits

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

Vapour pressure	18 mmHg
Vapour pressure temp.	21 °C
Vapour density	< 1
Relative density	1,01
Relative density temperature	21 °C

##### Solubility

Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	3 mPa.s
Viscosity temperature	21 °C
Explosive properties	Not available.
Oxidising properties	Not available.



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### 9.2. Other information

Pour point	1 °C
Shelf life	360 Days
VOC	0 % Calculated

### SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
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 heat.
10.5. Incompatible materials	Avoid contact with strong oxidisers.
10.6. Hazardous decomposition products	Oxides of carbon and nitrogen evolved in fire.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Product	Test Results
CORTROL OS5601 (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)
Components	Test Results
Carbohydrazide (497-18-7)	Acute Dermal LD50 Rabbit: > 2000 mg/kg Acute Oral LD50 Rat: > 5000 mg/kg
<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.
<b>Respiratory or skin sensitisation</b>	May cause an allergic skin reaction.
<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 cause an allergic skin reaction.
<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.



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### SECTION 12: Ecological information

#### 12.1. Toxicity

Product	Species	Test Results	
CORTROL OS5601 (CAS Mixture)			
<b>Aquatic</b>			
Crustacea	10% Mortality	Ceriodaphnia 126 mg/l, Static Renewal Bioassay, 48 hour	
	LC50	Ceriodaphnia 222 mg/l, Static Renewal Bioassay, 48 hour	
		Daphnia magna 1120 mg/l, Static Renewal Bioassay, 48 hour	
		Mysid Shrimp 1400 mg/l, Static Renewal Bioassay, 48 hour	
	NOEL	Daphnia magna 250 mg/l, Static Renewal Bioassay, 48 hour	
		Mysid Shrimp 500 mg/l, Static Renewal Bioassay, 48 hour	
	Fish	5% Mortality	Fathead minnow 126 mg/l, Static Renewal Bioassay, 96 hour
		LC50	Fathead minnow 348 mg/l, Static Renewal Bioassay, 96 hour
Rainbow trout 2100 mg/l, Static Acute Bioassay, 96 hour			
Sheepshead minnow 3200 mg/l, Static Renewal Bioassay, 96 hour			
NOEL		Rainbow trout 900 mg/l, Static Acute Bioassay, 96 hour	
		Sheepshead minnow 1000 mg/l, Static Renewal Bioassay, 96 hour	

#### 12.2. Persistence and degradability

- COD (mgO<sub>2</sub>/g) 130 (calculated data)
- TOC (mg C/g) 7 (calculated data)

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log K<sub>ow</sub>) 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 Nutrients: P = 0 mg/g ; N = 31.11 mg/g

### 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.



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

EWC ( European Waste Code ) recommendation : 16 03 05  
16 Wastes not otherwise specified in the list.  
16 03 Off-specification batches and unused products.  
16 03 05 Organic 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

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.

**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.



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**15.2. Chemical safety assessment** Not available.

**NSF Registered and/or meets USDA (according to 1998 guidelines):** Registration No. – 141472  
Category Code(s):  
G5 Cooling and retort water treatment products  
G7 Boiler, steam line treatment products – nonfood contact

### 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  
VME: Valeur moyenne d'exposition (Time weighted average)  
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).  
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

H317 May cause an allergic skin reaction.

### Revision information

SECTION 7: Handling and storage: 7.2. Conditions for safe storage, including any incompatibilities  
Physical & Chemical Properties: Multiple Properties  
SECTION 9: Physical and chemical properties: Appearance  
SECTION 9: Physical and chemical properties: Odour  
SECTION 13: Disposal considerations: EU waste code  
SECTION 15: Regulatory information: Restrictions on use  
SECTION 16: Other information: Further information

### 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





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Further information

Correction in Section: 7