



# SAFETY DATA SHEET

## INHIBITOR AZ8104

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

#### 1.1. Product identifier

Trade name or designation of the mixture INHIBITOR AZ8104

Version number 10.0

Revision date 28/01/2022

Supersedes date 07/02/2020

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

Identified uses Water-based corrosion inhibitor

Uses advised against None known.

#### 1.3. Details of the supplier of the safety data sheet

JV Process and Water Chemicals LLC

Street V. Kadirov 10, city Chirchik, Region Tashkent

Republic of Uzbekistan, 111702

tel : +99871 209 10 40

e-mail : 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

+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

Skin corrosion/irritation Category 1B H314 - Causes severe skin burns and eye damage.

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

##### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard Category 3 H412 - Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Contains: Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide, Sodium hydroxide



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### Hazard pictograms



### Signal word

Danger

### Hazard statements

H290 May be corrosive to metals.  
 H314 Causes severe skin burns and eye damage.  
 H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Response

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
 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/doctor.

#### 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

Aqueous alkaline solution of organic heterocyclic compounds

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Sodium hydroxide	1 - < 3	1310-73-2 215-185-5	01-2119457892-27	011-002-00-6	
<b>Classification:</b>	Met. Corr. 1;H290, Skin Corr. 1A;H314				

### Multi-constituent substance(

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide	<= 25	N/A -	01-2119949569-17	-	

**Classification:** Skin Corr. 1B;H314, Eye Dam. 1;H318, 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.



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Eye contact</b>	Rinse immediately with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Ingestion</b>	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** Corrosive effects.

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

**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>	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>	Wear protective clothing, gloves and safety goggles.
<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.  
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.

**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** Avoid contact with skin and eyes. Alkaline.  
Do not mix with acidic material.

**7.2. Conditions for safe storage, including any incompatibilities** Store containers closed when not in use.  
Store away from oxidisers.  
Store at temperatures below 35°C  
Store in corrosive resistant container with a resistant inner liner.

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

**Shelf life** 720 days



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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

###### Italy. Occupational Exposure Limits

Components	Type	Value
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m <sup>3</sup>

**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
Sodium hydroxide (CAS 1310-73-2)			
Long-term, Local, Inhalation	1 mg/m <sup>3</sup>	1	
Short-term, Local, Dermal	2 mg/kg/day		
Short-term, Local, Inhalation	2 mg/m <sup>3</sup>		
Multi-constituent substance(s)	Value	Assessment factor	Notes
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide (CAS N/A)			
Long-term, Systemic, Dermal	2 mg/kg/day	150	
Long-term, Systemic, Inhalation	7 mg/m <sup>3</sup>	150	

##### Predicted no effect concentrations (PNECs)

Multi-constituent substance(s)	Value	Assessment factor	Notes
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide (CAS N/A)			
Freshwater	12,8 µg/l	50	
Marine water	1,28 µg/l	500	
Sediment (freshwater)	132 µg/kg	1	
Sediment (marine water)	13,2 µg/kg	10	
Soil	19,1 µg/kg	1	
STP	1,82 mg/l	100	

#### 8.2. Exposure controls

**Appropriate engineering controls** Adequate ventilation to maintain air contaminants below exposure limits.  
 Eye wash facilities and emergency shower must be available when handling this product.

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

<b>Eye/face protection</b>	Splash proof chemical goggles. Face shield. CEN : EN 166
<b>Skin protection</b>	
- Hand protection	Gauntlet type neoprene gloves (Protection against unintentional short-term contact) Gauntlet type rubber gloves (Protection against unintentional short-term contact) Gauntlet type nitrile gloves (Protection against unintentional short-term contact) Gauntlet type butyl gloves (Protection against unintentional short-term contact) Coating thickness: 0.5 mm Penetration time: > 480 min CEN : EN 374-1/2/3/4; EN 420
- Other	Chemical resistant apron. CEN : EN ISO 13688; EN ISO 6530; EN ISO 6529; EN 14605
<b>Respiratory protection</b>	In case of insufficient ventilation, use a breathing mask with filter type: A2-P2 CEN : EN 140; EN 14387
<b>Thermal hazards</b>	Not available.

**Environmental exposure controls** Prevent from entering in public sewers or the immediate environment.



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### SECTION 9: Physical and chemical properties

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

##### Appearance

Colour Yellow to amber

Physical state Liquid

Odour Slight

Odour threshold Not available.

pH (concentrated product) 12,7

pH in aqueous solution 11,6 (5% SOL.)

Melting point/freezing point -11 °C

Initial boiling point and boiling range 99 °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

Vapour pressure temp. 21 °C

Vapour density < 1 (Air = 1)

Relative density 1,13

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 5 cps

Viscosity temperature 21 °C

Explosive properties Not available.

Oxidising properties Not available.

#### 9.2. Other information

Pour point -8 °C

Shelf life 720 days

VOC 0 % (Estimated)

### 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 No special requirement.

10.5. Incompatible materials Avoid contact with strong acids and oxidisers.

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



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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Product	Test Results
INHIBITOR AZ8104 (Mixture)	Acute Dermal LD50 Rat: > 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
Sodium hydroxide (1310-73-2)	Acute Dermal LD50 Rabbit: 1350 mg/kg Acute Oral LD50 Rabbit: > 500 mg/kg
Multi-constituent substance(s)	Test Results
Reaction mass of sodium 4-chloro-5-alkylbenzotriazolide and sodium 5-chloro-4-alkylbenzotriazolide and sodium 4-chloro-7-alkylbenzotriazolide and sodium 5-chloro-6-alkylbenzotriazolide (N/A)	Acute Dermal Rabbit: > 2000 mg/kg  Acute Oral Rat: > 2000 mg/kg
<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage.
<b>Serious eye damage/irritation</b>	Causes serious eye damage.
<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>	Causes digestive tract burns.
<b>Inhalation</b>	May cause irritation to the respiratory system.
<b>Skin contact</b>	Causes severe skin burns.
<b>Eye contact</b>	Causes serious eye damage.
<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
INHIBITOR AZ8104 (CAS Mixture)	LC50	
	Annelida(Lumbriculus variegatus)	138 mg/l, Static Acute Bioassay, 96 hour
	Benthic Crustacean(Gammarus pseutilimnaeus)	42,1 mg/l, Static Acute Bioassay, 96 hour
	Freshwater Snail(Physa sp.)	47,4 mg/l, Static Acute Bioassay, 96 hour



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Product		Species	Test Results
		Midge larvae (Chironomus tentans)	95,8 mg/l, Static Acute Bioassay, 96 hour
	NOEL	Annelida(Lumbriculus variegatus)	62,5 mg/l, Static Acute Bioassay, 96 hour
		Benthic Crustacean(Gammarus pseudolimnaeus)	25 mg/l, Static Acute Bioassay, 96 hour
		Freshwater Snail(Physa sp.)	25 mg/l, Static Acute Bioassay, 96 hour
		Midge larvae (Chironomus tentans)	62,5 mg/l, Static Acute Bioassay, 96 hour
Other	EC50	Pseudokirchnerella subcapitata	132 mg/l, 96 Hours
<b>Aquatic</b>			
Crustacea	EC0	Daphnia magna	155 mg/l, Static Acute Bioassay, 48 hour, (pH adjusted)
	EC50	Daphnia magna	210 mg/l, Static Acute Bioassay, 48 hour, (pH adjusted)
			50 mg/l, Chronic Bioassay, 21 day, (pH adjusted)
	LC50	Ceriodaphnia	124 mg/l, Static Renewal Bioassay, 48 hour
		Daphnia magna	217 mg/l, Static Renewal Bioassay, 48 hour, (pH adjusted)
		Mysid Shrimp	53 mg/l, Static Acute Bioassay, 48 hour, (pH adjusted)
	LOEL	Ceriodaphnia	40 mg/l, Chronic Bioassay, 7 day
	NOEL	Ceriodaphnia	75 mg/l, Static Renewal Bioassay, 48 hour
			20 mg/l, Chronic Bioassay, 7 day
		Daphnia magna	148 mg/l, Static Renewal Bioassay, 48 hour, (pH adjusted)
			27 mg/l, Chronic Bioassay, 21 day, (pH adjusted)
		Mysid Shrimp	25 mg/l, Static Acute Bioassay, 48 hour, (pH adjusted)
Fish	LC50	Bluegill sunfish	36,6 mg/l, Static Acute Bioassay, 96 hour
		Fathead minnow	135 mg/l, Static Acute Bioassay, 96 hour, (pH adjusted)
			50,7 mg/l, Static Renewal Bioassay, 96 hour, (pH adjusted)
		Menidia beryllina (Silversides)	41 mg/l, Static Acute Bioassay, 96 hour
		Rainbow trout	15,4 mg/l, Static Renewal Bioassay, 96 hour
		Sheepshead minnow	132 mg/l, Static Acute Bioassay, 96 hour, (pH adjusted)
	LOEL	Fathead minnow	8,3 mg/l, Chronic Flow-Thru Bioassay, 28 day, (pH adjusted)
	NOEL	Bluegill sunfish	25 mg/l, Static Acute Bioassay, 96 hour
		Fathead minnow	21,8 mg/l, Static Renewal Bioassay, 96 hour, (pH adjusted)



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Product	Species	Test Results
		15 mg/l, Static Acute Bioassay, 96 hour, (pH adjusted)
		4,2 mg/l, Chronic Flow-Thru Bioassay, 28 day, (pH adjusted)
	Menidia beryllina (Silversides)	25 mg/l, Static Acute Bioassay, 96 hour
	Rainbow trout	6,3 mg/l, Static Renewal Bioassay, 96 hour
	Sheepshead minnow	100 mg/l, Static Acute Bioassay, 96 hour, (pH adjusted)

### 12.2. Persistence and degradability

	Testing has shown product not to be readily biodegradable.
- COD (mgO <sub>2</sub> /g)	300
- BOD 5 (mgO <sub>2</sub> /g)	15
- BOD 28 (mgO <sub>2</sub> /g)	15
- Closed Bottle Test (% Degradation in 28 days)	6
- Zahn-Wellens Test (% Degradation in 28 days)	0
- TOC (mg C/g)	100

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: N: 13,3 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.

**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

<b>ADR</b>	
14.1. UN number	UN1760
14.2. UN proper shipping name	Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)





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### 14.3. Transport hazard class(es)

Class 8  
Subsidiary risk -  
Tunnel restriction code (E)

14.4. Packing group II

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

### RID

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

### 14.3. Transport hazard class(es)

Class 8  
Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

### ADN

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

### 14.3. Transport hazard class(es)

Class 8  
Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards No.

14.6. Special precautions Not available.  
for user

### IATA

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

### 14.3. Transport hazard class(es)

Class 8  
Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards No.

ERG Code Not available.

14.6. Special precautions Not available.  
for user

### IMDG

14.1. UN number UN1760

14.2. UN proper shipping name Corrosive liquid, n.o.s. (Sodium hydroxide, Reaction Mass Of Sodium 4-Chloro-5-Alkylbenzotriazolide And Sodium 5-Chloro-4-Alkylbenzotriazolide And Sodium 4-Chloro-E, Mixture)

### 14.3. Transport hazard class(es)

Class 8  
Subsidiary risk -

14.4. Packing group II

14.5. Environmental hazards

Marine pollutant No.

EmS F-A, S-B



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**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.

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, 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.



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NSF Registered and/or meets  
USDA (according to 1998  
guidelines):

Registration No. – 141530  
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  
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

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

### Revision information

Composition / Information on Ingredients: Ingredients  
SECTION 3: Composition/information on ingredients: Composition comments  
SECTION 8: Exposure controls/personal protection: Respiratory protection  
Physical & Chemical Properties: Multiple Properties  
Transport Information: Material Transportation Information  
SECTION 16: Other information: Further information  
GHS: Classification  
REACH: Associated Exposure Scenarios

### Training information

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



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**Based on EC Directive / Regulations** (EC) No 1907/2006 (REACH)  
(EC) No 1272/2008  
(EU) 2015/830  
(EU) No 1357/2014

This information is based on our current knowledge and is intended to describe the product for the purpose of safety requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

**Further information** Correction in Section: 1,3,11,14