

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

#### 1.1. Product identifier

Product form : Mixture  
Trade name : Hyfloc AC9L  
EC-No. : 215-477-2  
CAS-No. : 1327-41-9  
REACH registration No : 01-2119531563-43

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

##### 1.2.1. Relevant identified uses

Main use category : Product for water treatments

Title	Use descriptors
Industrial and professional use in drinking water and wastewater treatment (ES Ref.: Hyfloc AC9L)	SU2a, SU2b, SU5, SU6b, SU9, SU23, PC20, PC21, PC37, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d

Full text of use descriptors: see section 16

##### 1.2.2. Uses advised against

No additional information available

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

DERYPOL, S.A HQ: Manufacturing:  
C/Plató, n 6, Entlo, 5 C/Cal Gabatx, s/n  
08021 Barcelona (Spain) 08520 Les Franqueses del Vallès (Spain)  
Tel. +34 93 238 9090 Tel. +34 93 8496188  
regulatory@derypol.com

#### 1.4. Emergency telephone number

Emergency number : +34 93 849 6188  
9:00-13:00 h 15:00-17:00 h (GMT + 1)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Mixtures/Substances: SDS EU > 2015: According to Regulation (EU) 2015/830, 2020/878 (REACH Annex II)

Corrosive to metals, Category 1 H290  
Serious eye damage/eye irritation, Category 1 H318  
Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Signal word (CLP)	: Danger
Contains	: Aluminium polychloride
Hazard statements (CLP)	: H290 - May be corrosive to metals. H318 - Causes serious eye damage.
Precautionary statements (CLP)	: P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P390 - Absorb spillage to prevent material damage.

### 2.3. Other hazards

Other hazards which do not result in classification : Full text of H-statements: see section 16.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Comments : Water soluble cationic monomer

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium polychloride	CAS-No.: 1327-41-9 EC-No.: 215-477-2 REACH-no: 01-2119531563-43	15 – 25	Met. Corr. 1, H290 Eye Dam. 1, H318

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Do not perform any action that poses a risk if proper training is not held. Use the personal protective equipment necessary in the circumstances prevailing in the place of intervention.
First-aid measures after inhalation	: Go to the open air and cleanse thoroughly your nose and mouth with plenty of water. In case of persistent trouble get medical attention and provide this Material Safety Data Sheet to your physician.
First-aid measures after skin contact	: Rinse the skin affected with plenty of water. Then wash it again with water and soap. In case of irritation, if it persists, get medical advice.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. Get medical assistance. It is necessary having a safety shower in the work area.
First-aid measures after ingestion	: Do not induce vomiting. Rinse mouth out with water. Immediately call a POISON CENTER/doctor.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: None expected.
Symptoms/effects after inhalation	: None expected.
Symptoms/effects after skin contact	: None expected.
Symptoms/effects after eye contact	: Causes irritation.
Symptoms/effects upon intravenous administration	: Likely routes of exposure: skin and eye.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

Treat symptomatically. Any ingredient in significant proportion according to the criteria laid down in Regulation 1272/2008 is mentioned in paragraph 3.2 of this Safety Data Sheet. Get medical attention urgently.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water, water spray, dry powder, carbon dioxide (CO<sub>2</sub>), foam.  
Unsuitable extinguishing media : None.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Hydrogen chloride.

### 5.3. Advice for firefighters

Firefighting instructions : In case of fire extinguishing all means are permitted. In case of water, careful not to get into drains, pipes or channels to ensure that water is not contaminated.  
Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Protective equipment : Avoid eyes and skin contact; use personal protective equipment.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Protective gloves. Safety glasses.  
Emergency procedures : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

### 6.2. Environmental precautions

Avoid the ground to be contaminated, natural water courses and wastewater drainage. If contamination occurs inform the corresponding authorities immediately.

### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak without risks if possible.  
Methods for cleaning up : Clean contaminated surfaces with an excess of water. This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

See Section 8 to have information related to most appropriate personal protection equipment.  
See Section 13 to have information related to waste management.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Avoid contact with skin, eyes and clothing.  
Precautions for safe handling : Provide adequate ventilation. Use normal personal hygiene and housekeeping measures when handling any chemical product. We recommend handling the product in a well ventilated area. Ensure you have a safety shower and eye wash fountain available. Keep absorbent material as a precaution against spills.  
Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse.

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### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Store in cool, well-ventilated places. Keep containers tightly closed. Protect from exposure to sun. Keep the product away from incompatible materials and heat sources.
Storage conditions	: Avoid extreme temperatures (below "Minimum temperature" and above "Maximum temperature"). Keep in a covered place, with the drum well closed and within the "Recommended temperature range".
Incompatible products	: Bases.
Incompatible materials	: Metals. Avoid contact with galvanized surfaces and carbon steel, strong bases, chlorite, hypochlorite and sulfite. As a result of the reaction with these compounds some dangerous substances may be produced.
Storage temperature	: 0 – 30 °C
Packaging materials	: Store always product in container of same material as original container.

### 7.3. Specific end use(s)

For all the expected uses of the product the indications given above are considered appropriate.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

Hyfloc AC9L (1327-41-9)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	20.2 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	0.3 mg/l aluminium dissolved
PNEC aqua (marine water)	0.03 mg/l aluminium dissolved
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	20 mg/l Al

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Natural ventilation is adequate in open areas. Provide mechanical ventilation in confined spaces.

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### 8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses		With side shields	

#### 8.2.2.2. Skin protection

**Skin and body protection:**

Use your standard work clothes. In case of long contact with the product and risk of splash of its dissolutions use full waterproof suit

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Natural rubber, Polyvinylchloride (PVC), Neoprene rubber (HNBR)				

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**

Not necessary under normal conditions and provided good general ventilation

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid spills that contaminate the underground, surface water streams and sewer system.

**Consumer exposure controls:**

You should always have a safety shower and eyewash in the area where the product is handled.

**Other information:**

Wash your hands and anybody area that has resulted exposed to the product before drinking, eating, using the services and end of the work period. Be aware of your exposure to products used in your workplace and act responsibly to avoid contaminating other areas. Try to develop good health habits, check with your company responsible for help.

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Not available
Appearance	: Yellowish liquid.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: -15 °C
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not flammable
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not available
Auto-ignition temperature	: Not available

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Decomposition temperature	: Not available
pH	: 0.5 – 1.5
Viscosity, kinematic	: Not available
Viscosity, dynamic	: < 150 cP
Solubility	: Dilutable in all proportions.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.36 g/ml
Relative density	: Not available
Relative vapour density at 20 °C	: 0
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product has a character of strong acid, therefore corresponds reactivity with this feature.

### 10.2. Chemical stability

Stable under normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

### 10.4. Conditions to avoid

None for safety reasons. For keeping the original properties of the product follow the recommendations given in Section 7.

### 10.5. Incompatible materials

Bases. Avoid contact with chlorite, hypochlorite and sulfite. As a result of the reaction with these compounds some dangerous substances may be produced. May be corrosive to metals.

### 10.6. Hazardous decomposition products

Thermal decomposition products (in case of fire) are indicated in Section 5.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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Aluminium polychloride (1327-41-9)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal	2000 mg/kg bodyweight
LC50 Inhalation - Rat	5 g/m <sup>3</sup>

Skin corrosion/irritation	: Not classified pH: 0.5 – 1.5
Additional information	: Although the product is not classified as irritant we note that prolonged contact may cause mild irritation.
Serious eye damage/irritation	: Causes serious eye damage. pH: 0.5 – 1.5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Aluminium polychloride (1327-41-9)	
LOAEL (animal/male, F0/P)	90 mg/kg bodyweight
NOAEL (animal/male, F0/P)	90 mg/kg bodyweight

STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: No aspiration hazard is expected in normal use.

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	: No data available
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#### 11.2.2. Other information

Potential adverse human health effects and symptoms	: No symptoms expected if the product is properly handled.
Other information	: Likely routes of exposure: skin and eye, Through our experience and according to the information available, the product is not harmful to health if handled correctly according to the recommendations given.

## SECTION 12: Ecological information

### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Aluminium polychloride (1327-41-9)	
LC50 - Fish [1]	> 1.39 mg/l Danio rerio
EC50 - Crustacea [1]	98 mg/l (OECD TG 202)
EC50 72h - Algae [1]	15.6 mg/l (Pseudokirchneriella subcapitata, OECD TG201)
NOEC chronic fish	> 1000 ppm (OECD 203)
NOEC chronic algae	1.1 mg/l (72h, Pseudokirchneriella subcapitata, OECD TG201)

### 12.2. Persistence and degradability

Aluminium polychloride (1327-41-9)	
Persistence and degradability	Not established.

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### 12.3. Bioaccumulative potential

#### Aluminium polychloride (1327-41-9)

Bioaccumulative potential	not bioaccumulable.
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### 12.4. Mobility in soil

#### Aluminium polychloride (1327-41-9)

Ecology - soil	Depending on the pH, dissolved aluminum precipitates quickly so its impact on the environment is reduced significantly.
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### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : No data available

### 12.7. Other adverse effects

Other adverse effects : None to mention.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : If this product must be disposed as a waste the final user must do it accordingly with the European, national and local regulations. Use only authorised companies.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

### 14.1. UN number or ID number

UN-No. (ADR)	: UN 3264
UN-No. (IMDG)	: UN 3264
UN-No. (IATA)	: UN 3264
UN-No. (ADN)	: UN 3264
UN-No. (RID)	: UN 3264

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, inorganic, n.o.s.
Proper Shipping Name (ADN)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Transport document description (ADR)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS : Aluminium polychloride), 8, III, (E)
Transport document description (IMDG)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium polychloride CONTAINS), 8, III
Transport document description (IATA)	: UN 3264 Corrosive liquid, acidic, inorganic, n.o.s. (Aluminium polychloride), 8, III
Transport document description (ADN)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium polychloride), 8, III
Transport document description (RID)	: UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium polychloride), 8, III



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### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR) : 8

Danger labels (ADR) : 8

:



#### IMDG

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

:



#### IATA

Transport hazard class(es) (IATA) : 8

Danger labels (IATA) : 8

:



#### ADN

Transport hazard class(es) (ADN) : 8

Danger labels (ADN) : 8

:



#### RID

Transport hazard class(es) (RID) : 8

Danger labels (RID) : 8

:



### 14.4. Packing group

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

Packing group (ADN) : III

Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

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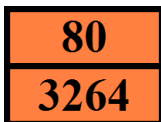
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : C1  
Special provisions (ADR) : 274  
Limited quantities (ADR) : 5L  
Excepted quantities (ADR) : E1  
Packing instructions (ADR) : P001, IBC03, LP01, R001  
Mixed packing provisions (ADR) : MP19  
Portable tank and bulk container instructions (ADR) : T7  
Portable tank and bulk container special provisions (ADR) : TP1, TP28  
Tank code (ADR) : L4BN  
Tank special provisions (ADR) : TU42  
Vehicle for tank carriage : AT  
Transport category (ADR) : 3  
Special provisions for carriage - Packages (ADR) : V12  
Hazard identification number (Kemler No.) : 80  
Orange plates :



Tunnel restriction code (ADR) : E  
EAC code : 2X  
APP code : B

#### Transport by sea

Special provisions (IMDG) : 223, 274  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
Packing instructions (IMDG) : P001, LP01  
IBC packing instructions (IMDG) : IBC03  
Tank instructions (IMDG) : T7  
Tank special provisions (IMDG) : TP1, TP28  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-B  
Stowage category (IMDG) : A  
Stowage and handling (IMDG) : SW2  
Segregation (IMDG) : SGG1, SG36, SG49  
Flash point (IMDG) : Stable with acid formulations, even below pH 1.  
Properties and observations (IMDG) : Causes burns to skin, eyes and mucous membranes.

#### Air transport

PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y841  
PCA limited quantity max net quantity (IATA) : 1L  
PCA packing instructions (IATA) : 852  
PCA max net quantity (IATA) : 5L  
CAO packing instructions (IATA) : 856  
CAO max net quantity (IATA) : 60L  
Special provisions (IATA) : A3, A803  
ERG code (IATA) : 8L

#### Inland waterway transport

Classification code (ADN) : C1  
Special provisions (ADN) : 274  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

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Additional requirements/Remarks (ADN) : Stable with acid formulations, even below pH 1.

### Rail transport

Classification code (RID) : C1  
Special provisions (RID) : 274  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Packing instructions (RID) : P001, IBC03, LP01, R001  
Mixed packing provisions (RID) : MP19  
Portable tank and bulk container instructions (RID) : T7  
Portable tank and bulk container special provisions (RID) : TP1, TP28  
Tank codes for RID tanks (RID) : L4BN  
Special provisions for RID tanks (RID) : TU42  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 80

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

##### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

##### Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

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### SECTION 16: Other information

#### Indication of changes

Section	Changed item	Change	Comments
	Adverse health effects caused by endocrine disrupting properties	Added	
	Adverse effects on the environment caused by endocrine disrupting properties	Added	
	Supersedes	Modified	
	Revision date	Modified	
	Issue date	Modified	
	SDS EU format	Added	
	CSR applicable	Added	
	SDS Ref.	Added	
1.1	Name	Modified	
2.2	Precautionary statements (CLP)	Modified	
8.1	PNEC aqua (marine water)	Modified	
8.1	PNEC aqua (freshwater)	Modified	
9.1	Physical state	Added	
16	Other information	Added	
16	Exposure scenarios	Added	

Other information : The latest version of the MSDS of this product can be obtained through the link <https://www.derypol.com/en/technical-documentation/>.

#### Full text of H- and EUH-statements

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
H290	May be corrosive to metals.
H318	Causes serious eye damage.

#### Full text of use descriptors

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
PC20	Metal surface treatment products
PC21	Laboratory chemicals
PC37	Water treatment chemicals
PROC19	Manual activities involving hand contact

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### Full text of use descriptors

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
SU23	Electricity, steam, gas water supply and sewage treatment
SU2a	Mining, (including offshore industries)
SU2b	Offshore industries
SU5	Manufacture of textiles, leather, fur
SU6b	Manufacture of pulp, paper and paper products
SU9	Manufacture of fine chemicals

### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Met. Corr. 1	H290	Expert judgment
Eye Dam. 1	H318	Expert judgment

Safety Data Sheet applicable for regions : DE;DK;ES;FI;FR;IT;NL;PL;PT;GB;RU;SE

Safety Data Sheet (SDS), EU

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

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### Annex to the safety data sheet

Identified Uses	Es N°	Short title	Page
Industrial and professional use in drinking water and wastewater treatment	1		15

# Hyfloc AC9L

## Annex to the safety data sheet: Exposure scenario

Reference number: CONC.35.FU.21 CAS-No.: 1327-41-9 Product form: Mixture Physical state: Liquid

### 1. Hyfloc AC9L - Industrial, Formulation; Industrial and professional use in drinking water and wastewater treatment

#### 1.1. Title section

##### Industrial and professional use in drinking water and wastewater treatment

ES Ref.: Hyfloc AC9L  
ES Type: Worker  
Version: 1.1  
Revision date: 12/23/2022

Author: Regulatory Department  
Company ES code: AC9L  
Association ref code: Hyfloc AC9L  
Issue date: 12/23/2022

Environment		Use descriptors
Hyfloc AC9L	Contributing scenario controlling environmental exposure	ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d

Worker		Use descriptors
Hyfloc AC9L	Contributing scenario controlling worker exposure	PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37

Processes, tasks, activities covered	Covers the use of the substance for the treatment of water at industrial facilities in closed or contained systems including incidental exposures during material transfers and equipment cleaning
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#### 1.2. Conditions of use affecting exposure

##### 1.2.1. Control of environmental exposure: Contributing scenario controlling environmental exposure (ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d)

ERC2	Formulation into mixture
ERC4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8b	Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
ERC8d	Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)

Product (article) characteristics	
Physical form of product	Liquid
Viscosity, dynamic	< 150 cP

#### Technical and organisational conditions and measures

Technical measures	On-site wastewater treatment prior to discharge to sewer or public waterway. Gaseous emissions purification by means of a scrubber tower (good practice). The waste is recycled or managed in accordance with the legislation
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### Conditions and measures related to treatment of waste (including article waste)

Deposition methods	Sodium carbonate, slaked lime (calcium hydroxide), sodium hydroxide, etc. can be used as neutralizing agents. - Used containers should be disposed of in accordance with applicable legislation.
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### 1.2.2. Control of worker exposure: Contributing scenario controlling worker exposure (PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37)

PROC3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4	Chemical production where opportunity for exposure arises
PROC5	Mixing or blending in batch processes
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)
PROC19	Manual activities involving hand contact
PC20	Metal surface treatment products
PC21	Laboratory chemicals
PC37	Water treatment chemicals

### Amount used (or contained in articles), frequency and duration of use/exposure

Variable between ml (sampling) and cubic meters (transfers).	
Covers daily exposures up to 8 hours	

### Technical and organisational conditions and measures

Technical measures	Work equipment must be in good working condition and must be properly maintained. . Clean up spills immediately. Order and cleanliness must be maintained in the workplace. The use of closed/automatic systems for handling the product is recommended, as well as coverage of open containers (e.g. by means of screens). Filling of containers with automatic dosing systems is recommended. It is recommended to clean the equipment and lines before disconnection and/or maintenance
Organisational measures	Workers must be trained to (a) not perform unprotected work,(b9) know the hazards of the product,(c) comply with the safety procedures provided by the operator of the user facility. The Facility Owner must ensure that the required PPE is available and used in accordance with the instructions for its use and established work procedures.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear respiratory protection when its use is identified for certain contributing scenarios.	
Hand protection	Wear suitable gloves tested to EN374
Eye protection	Safety spectacles with side shields



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### Conditions and measures related to personal protection, hygiene and health evaluation

Skin and body protection	Avoid contact with skin. Use your standard work clothes. In case of long contact with the product and risk of splash of its dissolutions use full waterproof suit
General protective and hygienic measures	Always wash your hands immediately after handling this product, and once again before leaving the workplace

### 1.3. Exposure estimation and reference to its source

#### 1.3.1. Environmental release and exposure Contributing scenario controlling environmental exposure (ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d)

No information available

#### 1.3.2. Worker exposure Contributing scenario controlling worker exposure (PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37)

No information available

### 1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 1.4.1. Environment

No data available

#### 1.4.2. Health

No data available