

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

1.1. Product identifier

Product form : Mixture
Trade name : Hyfloc AK940

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

1.2.1. Relevant identified uses

Function or use category : Product for water treatments

Title	Use descriptors
Industrial and professional use in drinking water and wastewater treatment (ES Ref.: Hyfloc AK940)	SU2a, SU2b, SU5, SU6b, SU9, SU23, PC20, PC21, PC37, PROC2, 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
Skin corrosion/irritation, Category 1 H314

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

Signal word (CLP) : Danger
Contains : Aluminium polychloride
Hazard statements (CLP) : H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.

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Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Immediately call a POISON CENTER or doctor.
P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.. Immediately call a POISON CENTER or doctor.
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 or doctor.
P390 - Absorb spillage to prevent material damage.

2.3. Other hazards

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 : Organic and inorganic coagulants mixture in aqueous solution

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	25 – 50	Met. Corr. 1, H290 Eye Dam. 1, H318
Poly(dimethyldiallylammonium chloride)	CAS-No.: 26062-79-3	3 – 5	Aquatic Chronic 3, H412

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

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 : In case of stained clothes take them out and wash them before using again. 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. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : No acute effects are expected, except for an allergic reaction to any of the individual product ingredients.

Symptoms/effects after skin contact : Slight irritation of the repeatedly exposed area.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Causes burns to mouth, throat and stomach.

Symptoms/effects upon intravenous administration : Likely routes of exposure: skin and eye.

Chronic symptoms : None known.

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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 (CO₂), foam.
Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Hydrogen chloride. Under fire conditions thermal decomposition may produce: nitrogen oxides (NO_x) and carbon oxides (CO_x).

5.3. Advice for firefighters

Firefighting instructions : Eliminate all ignition sources if safe to do so. 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 : Do not attempt to take action without suitable protective equipment. 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 exposure to vapour. Avoid eyes, skin and clothes contact. Use personal protective equipment. Ensure adequate ventilation. Use personal protective equipment. Keep away from people without protection. Slipping hazard if spilled load. Avoid contact with eyes and skin. Do not breathe vapors or spray mist. Personal protective equipment, see section 8.
Emergency procedures : Restrict access to area. Remove immediately contaminated clothes. Wash with plenty of water and soap the contaminated surfaces. Use safety goggles, PVC gloves and waterproof boots. Avoid the ground to be contaminated, natural water courses and wastewater drainage. If contamination occurs inform the corresponding authorities immediately.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Avoid eyes and skin contact; use personal protective equipment.
Emergency procedures : Stop leak if safe to do so. 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

Methods for cleaning up : For small spills use inert absorbent materials and remove with a shovel; then flush the affected area with pressured water. For large spills contain them with absorbent material and pump out the product to adequate containers; then flush the affected area with pressured water.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: 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.
Handling temperature	: 5 – 25 °C
Hygiene measures	: Use normal personal hygiene and housekeeping measures when handling any chemical product.

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	: Using equipment manufactured in acid-resistant material such as fiberglass, polyester, polyethylene or polypropylene. 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 materials	: 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

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

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

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



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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), Latex				

Other skin protection

Materials for protective clothing:

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

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:

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	: Transparent yellowish liquid.
Appearance	: Transparent yellowish liquid.
Odour	: Weak pungent odor.
Odour threshold	: Not available
Melting point	: < -10 °C
Freezing point	: Not available
Boiling point	: ≈ 110 °C
Flammability	: Not available
Oxidising properties	: Not applicable. Water-based product, free of organic solvents.
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: Not applicable. It is a water-based product free of organic solvents.
Auto-ignition temperature	: Not available
Decomposition temperature	: > 110 °C
pH	: 0.5 – 2
Viscosity, kinematic	: Not available
Viscosity, dynamic	: < 1500 cP

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Solubility	: Soluble in all proportions at 20°C.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: < 3
Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: 1.34 g/cm ³
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
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 risk of explosion or polymerization or inflammation on contact with air, even at high temperatures (<100 °C) and in the presence of ignition sources.

10.4. Conditions to avoid

Freezing temperatures.

10.5. Incompatible materials

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.

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)	: No data available.
Acute toxicity (dermal)	: No data available.
Acute toxicity (inhalation)	: No data available.

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LD50 oral rat	> 2000 mg/kg (estimated value)
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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 ³

Skin corrosion/irritation	: Causes severe skin burns. pH: 0.5 – 2
Serious eye damage/irritation	: Assumed to cause serious eye damage pH: 0.5 – 2
Respiratory or skin sensitisation	: This product is not expected to be sensitizing.
Germ cell mutagenicity	: No data available.
Carcinogenicity	: No data available.
Reproductive toxicity	: No data available.

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	: No data available.
STOT-repeated exposure	: No data available.
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, No additional hazard is expected owing to the blend of the constituent ingredients of this product.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: No data available.
Hazardous to the aquatic environment, long-term (chronic)	: No data available.
Additional information	: At the habitual doses of this product no harm is expected for the microorganisms present in secondary treatments in waste water treatment plants.

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LC50 - Fish [1]	100 – 1000 mg/l (estimated value)
EC50 - Crustacea [1]	10 – 100 mg/l (estimated value)

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)

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12.2. Persistence and degradability

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Persistence and degradability	This product is not rapidly biodegradable.
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Aluminium polychloride (1327-41-9)

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (Log Pow)	< 3
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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

Additional information : This product does not contain substances belonging to nonylphenol and nonylphenos ethoxylated groups. The product is a substance / inorganic preparation. When hydrolyzed, form metal hydroxide precipitates (pH 5-7), thus decreasing the pH of the water. If there are phosphates, phosphates can form metal complexes.

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.

Additional information : Keep the same recommendations provided in Sections 7 and 8 of this MSDS. Refer to Section 2 of this Safety Data Sheet.

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

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

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)	: Not applicable
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RID

Transport hazard class(es) (RID)	: 8
Danger labels (RID)	: 8



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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
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)	: 5I
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
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
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

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Inland waterway transport

No data available

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
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	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed

Denmark

Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product
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15.2. Chemical safety assessment

No 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	
	CSR applicable	Added	
	Supersedes	Modified	
	Revision date	Modified	
	Issue date	Modified	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Contains	Added	
4.2	Chronic symptoms	Added	
4.2	Symptoms/effects upon intravenous administration	Added	
4.3	Other medical advice or treatment	Modified	
6.1	Emergency procedures	Modified	
8.2	Consumer exposure controls	Added	
9.1	pH	Modified	
10.6	Hazardous decomposition products	Added	
11.1	LD50 oral rat	Modified	
12.1	LC50 fish 1	Modified	
12.1	EC50 Daphnia 1	Modified	
14.2	Proper Shipping Name (ADN)	Added	
16	Other information	Added	
	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

Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Met. Corr. 1	Corrosive to metals, Category 1
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.

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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
PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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	Calculation method
Skin Corr. 1	H314	On basis of test data

Safety Data Sheet applicable for regions : DE;CN;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.

Hyfloc AK940

Safety Data Sheet

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

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 AK940

Annex to the safety data sheet: Exposure scenario

Product form: Mixture Physical state: Liquid

1. Hyfloc AK940 - 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 AK940
ES Type: Worker
Version: 1.0
Revision date: 1/3/2023

Author: Regulatory Department
Association ref code: Hyfloc AK940
Issue date: 1/4/2023

Environment		Use descriptors
Hyfloc AK940	Contributing scenario controlling environmental exposure	ERC2, ERC4, ERC6b, ERC8a, ERC8b, ERC8d

Worker		Use descriptors
Hyfloc AK940	Contributing scenario controlling worker exposure	PROC2, 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)

Technical and organisational conditions and measures

Technical measures	On-site wastewater treatment prior to discharge to sewer or public waterway. The waste is recycled or managed in accordance with the legislation. Gaseous emissions purification by means of a scrubber tower (good practice).
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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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Hyfloc AK940

Annex to the safety data sheet: Exposure scenario

Product form: Mixture Physical state: Liquid

1.2.2. Control of worker exposure: Contributing scenario controlling worker exposure (PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC19, PC20, PC21, PC37)

PROC2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
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 glasses with side-shields
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

Hyfloc AK940

Annex to the safety data sheet: Exposure scenario

Product form: Mixture Physical state: Liquid

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

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 (PROC2, 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