

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 11/9/2023 Revision date: 11/9/2023 Supersedes version of: 10/3/2019 Version: 8.0

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

### 1.1. Product identifier

Product form : Mixture
Trade name : Hyfloc XT343

### 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

### 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)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

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

No labelling applicable

## 2.3. Other hazards

Other hazards which do not result in classification : Spills will produce extremely slippery surfaces in case of contact with water.

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 : Powder cationic polyacrylamide

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Adipic acid substance with national workplace exposure limit(s) (ES, PT)	CAS-No.: 124-04-9 EC-No.: 204-673-3 EC Index-No.: 607-144-00-9 REACH-no: 01-2119457561-38	≤2,5	Eye Irrit. 2, H319
Sulfamic acid	CAS-No.: 5329-14-6 EC-No.: 226-218-8 EC Index-No.: 016-026-00-0 REACH-no: 01-2119488633- 28 01-2119982121-44	≤2,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 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 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. In case of persistent trouble get medical attention and provide this

Material Safety Data Sheet to your physician.

First-aid measures after skin contact : Remove the maximum amount of product by using absorbent paper and then rinse with

plenty of water. In case of persistent irritation get medical advise.

First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open.

Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Get immediate medical

advice/attention.

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

Symptoms/effects after inhalation : Slight irritation of the respiratory tract.

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

Symptoms/effects after eye contact : Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. In case of

persistent irritation get medical assistance. It is necessary having a safety shower in the

work area.

Symptoms/effects after ingestion : Gastrointestinal discomfort. Repeated ingestion of the product is considered highly unlikely

route of exposure if working in adequate sanitary and hygiene conditions.

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

Chronic symptoms : None known.

### 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, powder, foam (carbon dioxide (CO2)).

Unsuitable extinguishing media : None.

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

Hazardous decomposition products in case of fire : Some hazardous gases can be released, mainly: carbon oxides (Cox) and nitrogen oxides

(Nox). In case of combustion in a poor oxygen atmosphere some vapors of hydrochloric

acid and hydrocyanic acid can be formed.

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## 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 Self-contained breathing apparatus. Complete protective clothing.

Other information Spills produce extremely slippery surfaces.

### **SECTION 6: Accidental release measures**

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

General measures : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust.

6.1.1. For non-emergency personnel

Protective equipment : Do not step on the spill and avoid contact with water. The affected area, in contact with water, will become extremely slippery. Wear recommended personal protective equipment.

**Emergency procedures** : Restrict access to area. Remove immediately contaminated clothes. Wash with plenty of

water and soap the conatminated surfaces. Use safety goggles, PVC gloves and waterproof

boots.

Measures in case of dust release : No special precautions required.

6.1.2. For emergency responders

Protective equipment : 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.

## 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

: Vacuum up or sweep spilled product. Methods for cleaning up

### 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

Precautions for safe handling : Avoid contact with eyes, skin and clothing. Avoid dust formation. Use local exhaust if

> dusting occurs. We recommend handling the product in a well ventilated area. Ensure you have a safety shower and eye wash fountain available. Use normal personal hygiene and

housekeeping measures when handling any chemical product.

Handling temperature 5 – 35 °C

Hygiene measures Use normal personal hygiene and housekeeping measures when handling any chemical

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

: Avoid extreme temperatures (below "Minimum temperature" and above "Maximum Storage conditions

> temperature"). Keep in a covered place, with the drum well closed and within the "Recommended temperature range". Store in cool, dry, well ventilated place. Keep the product in its original containers tightly closed. Keep in a covered place, fresh and with the bag / drum tightly closed. Once the drum / bag is open and you do not consume all the product you must be very careful to close it effectively. This product is hygroscopic and will adsorb water, resulting a hard surface of coagulated particles. To avoid corrosion and product degradation metallic containers and / or equipment must no t be used. Avoid static

discharges.

Incompatible materials : Store away from oxidants.

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Storage temperature : 5-35 °C

## 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 XT343		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	<falta :="" traducción=""></falta>	
Acute - systemic effects, inhalation	<falta :="" traducción=""></falta>	
Acute - local effects, dermal	<falta :="" traducción=""></falta>	
Acute - local effects, inhalation	<falta :="" traducción=""></falta>	
Long-term - systemic effects, dermal	<falta :="" traducción=""></falta>	
Long-term - systemic effects, inhalation	<falta :="" traducción=""></falta>	
Long-term - local effects, inhalation	<falta :="" traducción=""></falta>	

### 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 under normal handling conditions. Use local exhaust systems in case of mists and/or aerosols.

## 8.2.2. Personal protection equipment

## Personal protective equipment:

Safety glasses with side-shields. Gloves. Dust production: dust mask with filter type P2. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Personal protective equipment symbol(s):





## 8.2.2.1. Eye and face protection

### Eye protection:

Safety glasses with side-shields. Do not use contact lenses

## 8.2.2.2. Skin protection

## Skin and body protection:

Wear suitable protective clothing. Safety foot-wear

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### Hand protection:

Use latex gloves, or natural rubber gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Nitrile rubber (NBR), Polyvinylchloride (PVC), Natural rubber, Latex, Vinyl				

### Other skin protection

### Materials for protective clothing:

Wear suitable protective clothing

### 8.2.2.3. Respiratory protection

### Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

### 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:

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. Take off contaminated clothing and wash before reuse.

### Other information

pH solution

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

Appearance : White granulated solid.

Molecular mass : High molecular weight.

Odour : Almost odourless.

Odour threshold : The product can hardly be detected by odor, earlier dust atmospheres will evicence their

inappropiate presence. Take protective measures listed in section 8.2, find the cause and

correct it.

: Not available

Melting point Freezing point : Not available Boiling point : Not available Flammability : Not available **Explosive limits** : Not applicable Lower explosive limit (LEL) : Not applicable Upper explosive limit (UEL) : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : > 200 °C 2.5 - 4.5 (5 g/L)

Viscosity, kinematic : 4.1 – 4.7 mm²/s <Falta traducción : />

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Solubility : Water soluble. Solutions for concentrations above 1% become very viscous. Product

solubility limit depend on dissolution conditions (concentration, pH, temperature, preparation

system - agitation).

Partition coefficient n-octanol/water (Log Kow) : < 0

Not available Vapour pressure Vapour pressure at 50 °C Not available Density Not available Relative density Not available Relative vapour density at 20 °C : Not applicable Particle size : Not available Particle size distribution : Not available Not available Particle shape Not available Particle aspect ratio Not available Particle aggregation state Not available Particle agglomeration state Particle specific surface area : Not available Particle dustiness : Not available

### 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

This product does not present any dangerous reactivity if used, stored and handled in accordance with this MSDS recommendations.

## 10.2. Chemical stability

Stable under normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

There is no risk of polymerization.

## 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

Strong oxidizers may cause exothermic reactions. As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

## 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

Hyfloc XT343	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

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Hyfloc XT343		
LC50 Inhalation - Rat	The product is not expected to be toxic by inhalation.	
Adipic acid (124-04-9)		
LD50 oral rat	5560 mg/kg	
LD50 dermal rabbit	7940 mg/kg	
LC50 Inhalation - Rat (Dust/Mist)	> 7.7 mg/l/4h	
Sulfamic acid (5329-14-6)		
LD50 oral rat	3160 mg/kg (OECD 401)	
	Not irritant. pH: 2.5 – 4.5 (5 g/L)	
	Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjuctival effects similar to those which all granular materials have on conjuctivae.  pH: 2.5 – 4.5 (5 g/L)	
Respiratory or skin sensitisation :	Not sensitizing.	
- · · · · · · · · · · · · · · · · · · ·	Not mutagenic. Not carcinogenic.	
	It is not toxic for reproduction	
	No known effect.	
Sulfamic acid (5329-14-6)		
NOAEL (dermal, rat/rabbit)	2000 mg/kg bodyweight (OCDE 402)	
STOT-repeated exposure :	No known effect.	
Aspiration hazard :	No aspiration hazard is expected in normal use.	
Hyfloc XT343		
Viscosity, kinematic	4.1 – 4.7 mm²/s <falta :="" traducción=""></falta>	

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

### 11.2.2. Other information

Potential adverse human health effects and symptoms

Other information

- : No symptoms expected if the product is properly handled, No effects whatsoever related to exposure to the product are known.
- The most likely routes of exposure are skin and/or eye contact. Prolonged eye contact may cause temporary irritation. Flush eyes immediately. Follow the safety recommendations of paragraph 4,No additional hazard is expected owing to the blend of the constituent ingredients of this product, 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)

Hazardous to the aquatic environment, long-term

(chronic)

Additional information

: Not classified

: Not classified

: At the habitual doses of this product no harm is expected for the microorganisms present in secondary treatments in waste water treatment plants.

Hyfloc XT343	
LC50 - Fish [1]	> 10 mg/l (Danio rerio, OECD 203)

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Hyfloc XT343		
EC50 - Crustacea [1]	> 50 mg/l (Daphnia magna, OECD 202)	
EC50 72h - Algae [1]	Algal inhibition tests are not appropiate. The flocculating characteristics of the product inerfere directly in the test medium preventing homogenous distribution which invalides the test.	
Adipic acid (124-04-9)		
LC50 - Fish [1]	> 1000 mg/l Danio rerio	
EC50 - Crustacea [1]	46 mg/l Daphnia magna (OCDE 202)	
NOEC (chronic)	6.3 mg/l Daphnia magna (21 days)	
Sulfamic acid (5329-14-6)		
LC50 - Fish [1]	70.3 mg/l (OECD 203)	
EC50 - Crustacea [1]	71.6 mg/l (Daphnia magna, OCDE 202)	
EC50 72h - Algae [1]	48 mg/l (Scenedesmus subspicatus, OCDE 201)	

## 12.2. Persistence and degradability

Hyfloc XT343	
Persistence and degradability	Readily biodegradable. Abiotic degradation: Hydrolysis > 70% (28 days, pH 6 - 8, OECD 111). It is equivalent to a rapid biodegradability in accordance with Directive 67/548/CE, Annex VI. Data for a representative polymer. In aqueous solution this product may be eliminated by flocculation and precipitation. It is easily removed from the aqueous media in presence of suspended matter. This product does not contain substances belonging to nonylphenol and nonylphenos ethoxylated groups.
Adipic acid (124-04-9)	
Biodegradation	70 % (28 days, OECD 301 D)

## 12.3. Bioaccumulative potential

Hyfloc XT343		
Partition coefficient n-octanol/water (Log Kow) < 0		
Bioaccumulative potential The product is not expected to bioaccumulate.		
Adipic acid (124-04-9)		
Partition coefficient n-octanol/water (Log Pow) 0.093 25 °C, pH 3.3		

## 12.4. Mobility in soil

Hyfloc XT343	
Ecology - soil	It may be easily removed by an abiotic process of adsorption.

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

Other adverse effects : None to mention.

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## **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. Dispose of

contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispos

Additional information

: Disposal must be done according to official regulations.

: Keep the same recommendations provided in Sections 7 and 8 of this MSDS. Furthermore,

the user must consider the possible national/local regulations.

## **SECTION 14: Transport information**

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

### 14.1. UN number or ID number

UN-No. (ADR) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable UN-No. (ADN) : Not applicable UN-No. (RID) : Not applicable

## 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Proper Shipping Name (ADN) : Not applicable
Proper Shipping Name (RID) : Not applicable

## 14.3. Transport hazard class(es)

**ADR** 

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

## 14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

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## 14.6. Special precautions for user

### **Overland transport**

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### Inland waterway transport

Not applicable

## Rail transport

Not applicable

## 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 ≥ 0,1 % / SCL

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

No additional information available

### 15.2. Chemical safety assessment

The product should be considered a mixture. Given its classification is not necessary to perform a chemical safety assessment thereof.

## **SECTION 16: Other information**

### Indication of changes:

SDS EU format.

Indication of changes			
Section	Changed item	Change	Comments
	Adverse health effects caused by endocrine disrupting properties	Added	
	SDS EU format	Added	
	Issue date	Modified	
	Revision date	Modified	
	Adverse effects on the environment caused by endocrine disrupting properties	Added	
	Hazardous to the aquatic environment, long-term (chronic) - comment	Added	

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Indication of changes			
Section	Changed item	Change	Comments
	Respiratory or skin sensitisation - comment	Added	
	Supersedes	Modified	
	STOT-single exposure - comment	Added	
	STOT-repeated exposure - comment	Added	
	Skin corrosion/irritation - comment	Added	
	Reproductive toxicity - comment	Added	
	Germ cell mutagenicity - comment	Added	
	Carcinogenicity - comment	Added	
	Aspiration hazard - comment	Added	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.3	Other medical advice or treatment	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Hazardous decomposition products in case of fire	Added	
6.1	Emergency procedures	Modified	
6.3	Methods for cleaning up	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Technical measures	Modified	
9.1	pH solution	Modified	
12.1	EC50 72h algae (1)	Modified	
12.2	Persistence and degradability	Modified	
12.3	Bioaccumulative potential	Added	
12.4	Ecology - soil	Added	
15.2	Chemical safety assessment	Added	
16	Other information	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 Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet applicable for regions : GB

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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.