

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 11/3/2023 Revision date: 11/3/2023 Supersedes version of: 5/12/2021 Version: 7.0

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

### 1.1. Product identifier

Product form : Mixture
Trade name : Hyfloc XT653

### 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]

EUH-statements : EUH210 - Safety data sheet available on request.

## 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 product does not meet the PBT and vPvB classification criteria

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

## Safety Data Sheet

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

### 3.2. Mixtures

Comments : Powder cationic polyacrylamide

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	EC-No.: 226-218-8 REACH-no: 01-2119488633- 28	≤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. Take medical advice.

## 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 : Induce vomiting only if the patient is fully conscious. Get medical attention urgently.

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.

## Safety Data Sheet

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

### 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.

Emergency procedures : Stop leak if safe to do so.

### 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 : Clean up with a sh

: Clean up with a shovel and then with a brush and dustpan, avoid any rest of the product to remain in the spill area. Finally flush with pressured water and check the cleaning operation efficiency, otherwise the affected area will become extremely slippery.

### 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

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

Technical measures : Store in cool, dry, well ventilated place. Keep the product in its original containers tightly

closed .Avoid static discharges.

Storage conditions : Keep in a covered place. Store in a well ventilated and cool place, away from heat and frost,

in closed containers in accordance with safety standards. Instruct as storage standards.

Incompatible products : Store in cool, dry, well ventilated place. Keep the product in its original containers tightly

closed .Avoid static discharges.

Storage temperature : 5-35 °C

11/3/2023 (Revision date) EN (English) 3/10

## Safety Data Sheet

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

## 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

O. I.A. DIVLE UND I NEO	
Hyfloc XT653	
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

## Safety Data Sheet

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

### Hand protection:

Protective gloves made of PVC

## 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 release to the environment.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : white.

Appearance : White granulated solid.

Odour : 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.

Odour threshold : Not available Melting point : > 100 °C : Not available Freezing point Boiling point Not available Flammability : Not available : Not applicable **Explosive limits** 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)pH solution Not available Viscosity, kinematic Not applicable

Solubility : Water soluble. Concentrations above 3% 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 0.6 - 0.9Relative vapour density at 20 °C : Not applicable Particle size : Not available Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state : Not available Particle agglomeration state : Not available Particle specific surface area : Not available Particle dustiness : Not available

## Safety Data Sheet

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

### 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

Oxidizing agent.

### 10.6. Hazardous decomposition products

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.

## **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) The product is not expected to be toxic by inhalation.

Hyfloc XT653	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
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
Skin corrosion/irritation	: Not irritant.

Serious eye damage/irritation : 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 classified Germ cell mutagenicity : Not mutagenic. Carcinogenicity : Not carcinogenic.

Reproductive toxicity : It is not toxic for reproduction

## Safety Data Sheet

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

STOT-single exposure : No known effect.
STOT-repeated exposure : No known effect.

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

11.2.2. Other information

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: No data available.

: Not classified

Hyfloc XT653	
LC50 - Fish [1]	5 – 10 mg/l (OECD 203 method)
EC50 - Crustacea [1]	20 – 50 mg/l OECD202
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)

## 12.2. Persistence and degradability

Hyfloc XT653	
Persistence and degradability	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. Hydrolysis derivates are not harmful to aquatic organisms.
Adipic acid (124-04-9)	
Biodegradation	70 % (28 days, OECD 301 D)

## 12.3. Bioaccumulative potential

Hyfloc XT653		
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 XT653	
Ecology - soil	No information available.

## Safety Data Sheet

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

## 12.5. Results of PBT and vPvB assessment

### **Hyfloc XT653**

The product does not meet the PBT and vPvB classification criteria

### 12.6. Endocrine disrupting properties

No additional information available

## 12.7. Other adverse effects

No additional information available

## **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.

Sewage disposal recommendations : Disposal must be done according to official regulations. Product/Packaging disposal recommendations : Disposal must be done according to official 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

11/3/2023 (Revision date) EN (English) 8/10

## Safety Data Sheet

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

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

## 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

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

Indication of changes			
Section	Changed item	Change	Comments
	SDS EU format according to COMMISSION REGULATION (EU) 2020/878		
4.1	First-aid measures after ingestion	Modified	

## Safety Data Sheet

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

Indication of changes			
Section	Changed item	Change	Comments
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.
EUH210	Safety data sheet available on request.

Safety Data Sheet applicable for regions

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.

: GB