

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 11/1/2023 Revision date: 11/1/2023 Supersedes version of: 3/6/2019 Version: 6.0

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

#### 1.1. Product identifier

Product form : Mixture
Trade name : Hyfloc V21C

#### 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

#### 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)

Skin corrosion/irritation, Category 2 H315
Serious eye damage/eye irritation, Category 1 H318
Specific target organ toxicity — Single exposure, Category 3, Respiratory H335

tract irritation

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

: Danger

GHS07

Signal word (CLP)

Contains : Sodium bentonite; Calcium hydroxide

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face 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

## Safety Data Sheet

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

POISON CENTER or doctor.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

EUH-statements : EUH070 - Toxic by eye contact.

#### 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

: Multicompound mixture of cationic polyacrylamide and inorganic compounds

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium Sulfate substance with national workplace exposure limit(s) (ES); substance with a Community workplace exposure limit	CAS-No.: 10043-01-3 EC-No.: 233-135-0 REACH-no: 01-2119531538- 36	25 – 50	Met. Corr. 1, H290 Eye Dam. 1, H318
Sodium bentonite substance with national workplace exposure limit(s) (ES)	CAS-No.: 1302-78-9 EC-No.: 215-108-5	15 – 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Calcium hydroxide substance with national workplace exposure limit(s) (DE, ES, FR, PT)	CAS-No.: 1305-62-0 EC-No.: 215-137-3 REACH-no: 01-2119475151- 45	10 – 15	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Activated carbon substance with a Community workplace exposure limit	CAS-No.: 7440-44-0 EC-No.: 931-328-0 REACH-no: 01-211948889-16	1 – 3	Not classified
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	< 0.1	Eye Irrit. 2, H319

Full text of H-statements: see section 16

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

: 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.

: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek

medical advice.

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. In case of stained clothes take them out and wash them before using again.

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.

11/1/2023 (Revision date) EN (English) 2/11

## Safety Data Sheet

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

First-aid measures after ingestion

: If swallowed, seek medical advice immediately and show this container or label. Rinse mouth out with water. Do not induce vomiting.

## 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 : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye damage.

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.

#### 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 : Under fire conditions thermal decomposition may produce: carbon oxides (COx) and

calcium oxides.

#### 5.3. Advice for firefighters

Precautionary measures fire : Use self-contained breathing apparatus and chemically protective clothing.

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

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

General measures : Do not step on the spill and avoid contact with water. The affected area, in contact with

water, will become extremely slippery.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

## 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 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.

11/1/2023 (Revision date) EN (English) 3/11

## Safety Data Sheet

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

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : 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.

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

product.

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

Storage conditions : Store under the local laws. Observe the label directions.

Incompatible products : Oxidizing agent. Strong acids.

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

Aluminium Sulfate (10043-01-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA	2 mg/m³ (calculated as Al)	
Activated carbon (7440-44-0)	Activated carbon (7440-44-0)	
EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 10 mg/m³		

#### 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:

Use local exhaust systems if dusty atmospheres occur, otherwise general ventilation is sufficient.

### 8.2.2. Personal protection equipment

## 8.2.2.1. Eye and face protection

### Eye protection:

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

## Safety Data Sheet

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

#### Hand protection:

Use latex gloves, or natural rubber gloves

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Use a complete face filter mask (mouth, nose and eyes) with a filter for particles

#### 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.

#### Other information

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

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

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

: Solid Physical state Colour Not available Appearance : Fine black powder. Odour Almost odourless. Odour threshold Not available Melting point Not available Freezing point Not available Boiling point Not available Flammability : Not flammable **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 : Not available Decomposition temperature : Not available Hq pH solution : 0.3 (5 – 8) %

Solubility : It forms water suspensions where some ingredients of the product are dissolved. There is

no viscosity increase for increasing concentrations; the product flocculates on itself after a

few minutes.

: Not applicable

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available 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 : Not available Particle size distribution : 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

Viscosity, kinematic

## 9.2.1. Information with regard to physical hazard classes

No additional information available

## Safety Data Sheet

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

#### 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

No dangerous reaction known.

#### 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

None under normal conditions. 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.

Aluminium Sulfate (10043-01-3)		
LD50 oral rat	2000 – 5000 mg/kg	
LD50 dermal rabbit	> 5000 mg/kg	
LC50 Inhalation - Rat	> 5 mg/l/4h	
Calcium hydroxide (1305-62-0)		
LD50 oral rat	> 2000 mg/kg (OECD 425)	
LD50 dermal rabbit	> 2500 mg/kg (OECD 402)	
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 corresion/irritation		

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.

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.

## Safety Data Sheet

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

Aluminium Sulfate (10043-01-3)	
NOAEL (animal/female, F1)	90 mg/kg bodyweight (calculated as Al) OECD TG422
STOT-single exposure :	May cause respiratory irritation.
Sodium bentonite (1302-78-9)	
STOT-single exposure	May cause respiratory irritation.
Calcium hydroxide (1305-62-0)	
STOT-single exposure	May cause respiratory irritation.
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

#### 11.2.2. Other information

Potential adverse human health effects and

symptoms

Other information

: No symptoms expected if the product is properly handled.

: 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)

: No data available.

Hazardous to the aquatic environment, long-term

(chronic)

: No data available.

Aluminium Sulfate (10043-01-3)	
LC50 - Fish [1]	> 1000 mg/l Danio rerio
EC50 - Crustacea [1]	> 160 mg/l Daphnia magna
EC50 72h - Algae [1]	24 mg/l Pseudokirchneriella subcapitata / OECD TG 201 (calculated as Al)
Calcium hydroxide (1305-62-0)	
LC50 - Fish [1]	50.6 mg/l freshwater fish
LC50 - Fish [2]	457 mg/l freshwater fish
LC50 - Other aquatic organisms [2]	158 mg/l seawater invertebrates
EC50 - Other aquatic organisms [1]	49.1 mg/l freshwater invertebrates
EC50 72h - Algae [1]	184.57 mg/l freshwater algae
NOEC (chronic)	32 mg/l (sea water invertebrates, 14 days)
NOEC chronic algae	48 mg/l freshwater algae
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)

## Safety Data Sheet

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

## 12.2. Persistence and degradability

Hyfloc V21C	
Persistence and degradability	No data available.
Activated carbon (7440-44-0)	
Persistence and degradability	Not biodegradable.
Biochemical oxygen demand (BOD)	0.001 − 0.002 g O₂/g substance
Chemical oxygen demand (COD)	2 g O <sub>2</sub> /g substance
Adipic acid (124-04-9)	
Biodegradation	70 % (28 days, OECD 301 D)

## 12.3. Bioaccumulative potential

Hyfloc V21C	
Bioaccumulative potential	No data available.
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 V21C	
Ecology - soil	No information available.

## 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.

## **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. 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

## Safety Data Sheet

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

## 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

## 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

## Safety Data Sheet

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

## **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	Added	
9.1	pH solution	Added	
9.1	Appearance		
16	Other information	Modified	

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	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Met. Corr. 1	Corrosive to metals, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	
H290	May be corrosive to metals.	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
EUH070	EUH070 Toxic by eye contact.	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]		
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

## Safety Data Sheet

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLI		
STOT SE 3	H335	Calculation method

Safety Data Sheet applicable for regions : GB

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.