

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 4/19/2023 Revision date: 4/19/2023 Supersedes version of: 3/25/2020 Version: 4.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Hyfloc FIC59E

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Process aid industrial applications

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. Full text of H-

statements: see section 16.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Anionic acrylamide copolymer in hydrocarbons based emulsion

Safety Data Sheet

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

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic substance with national workplace exposure limit(s) (ES); substance with a Community workplace exposure limit	EC-No.: 920-107-4 REACH-no: 01-2119453414- 43	15 – 50	Asp. Tox. 1, H304
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	< 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	:	Beware of possible existing spills of product. See previously the Safety Data Sheet and act
		accordingly. Do not perform any action that poses a risk if proper training is not held. Use
		the personal protective equipment necessary in the circumstances prevailing in the place of

intervention.

First-aid measures after inhalation : Go to the open air and lie down on one side the affected person till he/she recovers. If

difficult breathing persists get medical attention immediately.

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 : Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. Get

medical assistance. It is necessary having a safety shower in the work area.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Call a physician immediately.

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 : May include: itching, pain, redness, tears. Symptoms/effects after ingestion : May cause irritation of the digestive tract.

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

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Cool the containers with sprayed water. Avoid exposure to smoke and vapour provoked by

the heating or combustion of the product.

Hazardous decomposition products in case of fire : Some hazardous gases can be released, mainly: carbon oxides (Cox) and nitrogen oxides (Nox). In case of computation in a poor oxygen atmosphere some yappers of hydrochloric

(Nox). In case of combustion in a poor oxygen atmosphere some vapors of hydrochloric acid and hydrocyanic acid can be formed.

5.3. Advice for firefighters

Precautionary measures fire : Fight fire with normal precautions from a reasonable distance.

4/19/2023 (Revision date) EN (English) 2/11

Safety Data Sheet

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

Firefighting instructions : In case of fire: stop leak if safe to do so. Do not enter fire area without proper protective

equipment, including respiratory protection.

Protection during firefighting : Use self-contained breathing apparatus and chemically 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 : 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.

Emergency procedures : Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it es safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have

emergency equipment (for fires, spills, leaks, etc.) readily available.

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

Methods for cleaning up : For small spills use inert absorbent materials and

: 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Handle product in areas with suitable conditions and

equipment. Foresee the possibility of a spill and take preventive measures, including: having absorbent material nearby, establish working conditions (racking circuit arrangement, valve position, clearwork area, etc..) to avoid that, in case of spillage,

contamination of collectors, water courses or soil occurs.

Handling temperature : 5 – 30 °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 : 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". On long storage periods at low temperatures (see "Critical temperature range") the product may undergo an emulsion degradation process. If this occurs we recommend mixing the product and moving it to a warmer storage zone.

Storage conditions : 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.

4/19/2023 (Revision date) EN (English) 3/11

Safety Data Sheet

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

Incompatible products : Oxidizing agent. As a general rule we recommend avoiding the contact with strong chemical

reagents, such as acids, bases, reductors and oxidizers.

Storage temperature : 0 - 35 °C

Heat and ignition sources : Protect from freezing. Protect from sunlight.

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

Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	1200 mg/m³
Spain - Occupational Exposure Limits	
VLA-ED (OEL TWA) [1]	200 mg/m³
VLA-EC (OEL STEL)	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:

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

8.2.2.1. Eye and face protection

Eye protection			
Туре	Field of application	Characteristics	Standard
Safety glasses		With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:

Use a chemical resistant apron or full protective equipment depending on the handling level and contact risks with the product and its dissolutions. Safety foot-wear

Hand protection:

Protective gloves made of PVC

Safety Data Sheet

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

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Latex, Polyvinylchloride (PVC), Natural rubber				EN ISO 374

Other skin protection

Materials for protective clothing:

Use your standard work clothes

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:

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:

рΗ

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: LiquidColour: Not availableAppearance: Whitish opaque liquid.

Molecular mass : High molecular weight. Odour : Aliphatic odour. Odour threshold : Not available Melting point : < 5 °C Freezing point : Not available Boiling point : > 100 °C Flammability : Not available **Explosive limits** : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) : Not available Flash point : Not flammable. Auto-ignition temperature : Not available : > 150 °C Decomposition temperature

pH solution : 4-6 (5 g/L) Viscosity, kinematic : > 20.5 mm²/s (40 °C) Viscosity, dynamic : 500-2000 cP

Solubility : Water soluble. Solution concentration will be limited by its own viscosity.

Safety Data Sheet

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

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

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

Protect from frost, heat and sunlight.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases. 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) : The product is not expected to be toxic by inhalation.

Hyfloc FIC59E		
LD50 oral rat	> 5000 mg/kg (estimated value)	
LD50 dermal rat	> 5000 mg/kg (estimated value)	
Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic		
LD50 oral rat	> 5000 mg/kg (OCDE 401)	
LD50 dermal rat	> 5000 mg/kg (OCDE 402)	
LC50 Inhalation - Rat	> 4.951 mg/l/4h (OCDE 403)	
Isotridecanol, ethoxylated (69011-36-5)		
LD50 oral rat	500 – 2000 mg/kg	

Safety Data Sheet

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

> 2000 mg/kg Not irritating to skin H: ≈ 4 Repeated or prolonged exposure to the product can cause the elimination of skin oils, esulting in a non-allergic contact dermatitis and absorption of the product through the skin. Not irritating to eyes. (OECD 437 method)
oH: ≈ 4 Repeated or prolonged exposure to the product can cause the elimination of skin oils, esulting in a non-allergic contact dermatitis and absorption of the product through the skin.
Repeated or prolonged exposure to the product can cause the elimination of skin oils, esulting in a non-allergic contact dermatitis and absorption of the product through the skin.
lot irritating to eyes (OECD 437 method)
of initiating to cycs. (OEOD 407 inication) H: ≈ 4
lot sensitizing.
Not mutagenic.
Not carcinogenic.
t is not toxic for reproduction
<2%. aromatic
300 mg/kg (OCDE 421)
lo known effect.
lo known effect.
lo aspiration hazard is expected in normal use.
> 20.5 mm²/s (40 °C)
1111

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

Potential adverse human health effects and symptoms

: The most likely routes of exposure are skin and/or eye contact,No effects whatsoever related to exposure to the product are known,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.

Other information : N

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)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

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.

	secondary treatments in waste water treatment plants.	
Hyfloc FIC59E		
LC50 - Fish [1]	10 – 100 mg/l Data for a representative polymer.	
EC50 - Crustacea [1]	10 – 100 mg/l Data for a representative polymer.	
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.	
Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic		
LC50 - Fish [1]	> 1000 mg/l (Oncorhynchus mykiss, OECD 203)	

Safety Data Sheet

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

Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic		
EC50 - Crustacea [1]	> 1000 mg/l (Daphnia magna, OECD 202)	
EC50 72h - Algae [1]	> 1000 mg/l (Pseudokirchneriella subcapiata, OECD 201 method)	
NOEC chronic fish	> 1000 mg/l (Oncorhyncus mykiss, 28 d)	
NOEC chronic crustacea	> 1000 mg/l (Daphnia magna, 21 d)	
NOEC chronic algae	> 1000 mg/l (Tetrahymena pyriformis, 48 h)	
Isotridecanol, ethoxylated (69011-36-5)		
LC50 - Fish [1]	1 – 10 mg/l (OECD 203 method)	
EC50 - Crustacea [1]	1 – 10 mg/l (OECD 202 method)	
EC50 72h - Algae [1]	1 – 10 mg/l (OECD 201 method)	
ErC50 algae	1 – 10 mg/l (OECD 201 method)	
NOEC (chronic)	> 1 mg/l (OECD 202 method)	

12.2. Persistence and degradability

Hyfloc FIC59E		
Persistence and degradability	Biodegradable product. Hydrolysis derivates are not harmful to aquatic organisms. 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.	
Biodegradation	> 70 % (pH>6, 28d)	
Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic		
Persistence and degradability	This product is not rapidly biodegradable. This product does not hydrolyse.	
Isotridecanol, ethoxylated (69011-36-5)		
Persistence and degradability	Hardly biodegradable. This product does not hydrolyse.	
Biodegradation	> 60 % (OECD 301B method)	

12.3. Bioaccumulative potential

Hyfloc FIC59E		
Bioaccumulative potential	The product is not expected to bioaccumulate.	
Hydrocarbons, C12-C15, n-alkanes, isoalcanes <2%. aromatic		
Partition coefficient n-octanol/water (Log Pow)	3 – 6	
Isotridecanol, ethoxylated (69011-36-5)		
Partition coefficient n-octanol/water (Log Pow)	> 3	

12.4. Mobility in soil

Hyfloc FIC59E	
Ecology - soil	No information available.
Isotridecanol, ethoxylated (69011-36-5)	
Partition coefficient n-octanol/water (Log Koc)	> 5000

12.5. Results of PBT and vPvB assessment

No additional information available

Safety Data Sheet

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

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by

endocrine disrupting properties

: No data available

12.7. Other adverse effects

Other adverse effects : None to mention.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : If this product must be disposed as a waste the final user must do it accordingly with the

European, national and local regulations. Use only authorised companies. Empty containers and residual product must not be washed out with water, this would provoke an inappropriate dissolution of the product and it would increase the amount of waste to dispose. Exhaust as much as possible the product and dispose the empty container taking into account Section 13.1. Furthermore, the user must consider the possible national/local

regulations.

Additional information : Keep the same recommendations provided in Sections 7 and 8 of this MSDS.

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

4/19/2023 (Revision date) EN (English) 9/11

Safety Data Sheet

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

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

Germany

Water hazard class (WGK) : WGK 3, Highly 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 : None of the components are listed

NET-IIIIIlatieve lijst van voor de voortplant

giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen – Ontwikkeling

: None of the components are listed

: None of the components are listed

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

4/19/2023 (Revision date) EN (English) 10/11

Safety Data Sheet

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

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		
	Revision date	Modified		
	Issue date	Modified		
	SDS EU format	Added		
	Serious eye damage/irritation - comment	Modified		
	Supersedes	Modified		
3	Composition/information on ingredients	Modified		
4.3	Other medical advice or treatment	Modified		
8.2	Appropriate engineering controls	Added		
8.2	Hand protection	Modified		
9.1	Odour	Modified		
9.1	Viscosity, kinematic	Added		
11.1	LD50 oral rat	Modified		

Full text of H- and EUH-statements		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Asp. Tox. 1	Aspiration hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H318	Causes serious eye damage.	
EUH210	Safety data sheet available on request.	

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

Safety Data Sheet (SDS), EU

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