According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

20/07/2015 **Revision :** 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 1/10

01. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier Product name

HYDROFLOC-T43

1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use Water chemical treatment (FLOCCULANT)

1.3. Details of the supplier of the safety	/ data sheet
Full Name	Hydro Italia S.r.I.
Address	Via Torricelli, 79 Z.I. Fossatone
District and Country	40059 Medicina (BO)
	ITALY
	Tel. + 39 051 856263
	Fax + 39 051 856282
e-mail address of the competent person	
responsible for the Safety Data Sheet	direzione@hydroitalia.com (Lorenzo Amadori)

Product distribution by:

Hydro Italia S.r.l.

1.4. Emergency telephone number

For urgent inquiries refer to

Phone numbers of main Italian Poison Control Centres (active 24/24 hours) Milan Poison Control Centre 02 66101029 (CAV Ospedale Niguarda Ca` Granda - Milano) Pavia Poison Control Centre 0382 24444 (CAV IRCCS Fondazione Maugeri - Pavia) Bergamo Poison Control Centre 800 883300 (CAV Ospedali Riuniti - Bergamo) Firenze Poison Control Centre 055 7947819 (CAV Ospedale Careggi - Firenze) Roma Poison Control Centre 06 3054343 (CAV Policlinico Gemelli - Roma) Roma Poison Control Centre 06 49978000 (CAV Policlinico Umberto I - Roma) Tel +39 348 3300148 (Technical support - Monday to Friday: 8.30-12.30; 14.00-18.00)

02. HAZARDS IDENTIFICATION

2.1 <u>Classification of the substance or mixture</u>

Classification according to (EU) Regulation 1272/2008 Corrosion/Skin irritation; Category 2. It causes skin irritation. Classification according to EU Directives EU 67/548/CEE or 1999/45/CE Irritant, irritant for the skin.

2.2 Label elements

Labelling (CE REGULATION N. 1272/2008)

Danger Pictograms

Warning Danger indications Safety advice



CAUTION H315 (it causes skin irritation) Prevention

P264	Wash hands t	thoroughly	after use.
P280	wear gloves /	protective	clothing

:

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

evision:	20/07/2015	Revision :	8.0
reation:	30/05/1996		
printing:	05.11.2015		

SHEET CODE: SS11120000 Page 2/10

Reaction:

P302 + P352	IF ON SKIN: Wash with plenty of soap and water
P332 + P313	If skin irritation occurs: Get medical advice
P362	Take off contaminated clothing and wash before reuse

2.3 Other hazards.

Advice: contaminated surfaces will be extremely slippery. Potential effects on the environment: This substance / mixture does not contain components considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture

Chemical nature of the Cationic polyacrylamide mixture

CAS/UE/REACH registration number		oncentration	Classification according to Regulation (EU) 1272/2008	Classification according to EU Directives 67/548/CEE or 1999/45/CE
77-92-9 201-069-1 01-2119457026-42	Citric acid	1,3 %	Eye Irrit. Category 2,H319	Xi ,R36
68439-50-9	Alcohols, C12-14, ethoxylates	0 - 2%	Acute Tox. Category 4,H3 Eye Dam.Category 1,H31 Aquatic Acute Category 1,H400	
68002-97-1	Alcohols, C10-16, ethoxylates	0,2 %	Acute Tox. Category 4,H302 Skin Irrit. Category 2,H315	Xn ,R22 XI, R38 R41
			Eye Dam. Category 1,H318 Aquatic Acute Category 1,H400	N,R50
68551-12-2	Alcohols, C12-16, ethoxylates	0,2 %	Acute Tox. Category 4,H302 Skin Irrit. Category 2.H315	Xn ,R22 Xi ,R38 R41
			Eye Dam. Category 1,H318 Aquatic Acute Category 1,H400	N ,R50
	Hydrocarbons , C12-C15, n- alkanes, isoalkanes and cyclical, with content of aromatics < 2%	0 - 25 %	Asp. Tox. Category 1,H304	Xn ,R65, R66

Safety data sheet According to CE Regulations 1907/2006 (Reach)

Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation:	HYDROFLOC T-43 20/07/2015 Revision 30/05/1996			
Date of printing:	05.11.2015		SHEET CODE: SS111200	00 Page 3/10
01-2119485032-45	Hydrocarbons , C13-C15, n- alkanes, isoalkanes and cyclical, with content of aromatics < 2%	0 - 25 %	Asp. Tox. Category 1,H304	Xn ,R65, R66
01-2119826592-36	Hydrocarbons , C13-C16, n- alkanes, isoalkanes and cyclical, with content of aromatics < 0.03%	0 - 25 %	Asp. Tox. Category 1,H304	Xn ,R65
01-2119456620-43	Hydrocarbons , C11-C14, n- alkanes , isoalkanes and cyclical, with content of aromatics < 2%	0 - 25 %	Asp. Tox. Category 1,H304	Xn ,R65, R66
01-2119979538-16	Hydrocarbons, C12-C13, isoalkanes and cyclical, With content of aromatics < 2%	0 - 25 %	Asp. Tox. Category 1,H304	Xn ,R65, R66

For the components listed above which have as minimum value zero and as maximum value a standard interval, common range, they are components that can be used interchangeably depending on availability. Only one of these components is contained in the product to the maximum amount indicated.

Further information

04. FIRST AID MEASURES

As for the full text of danger indications mentioned in this paragraph, refer to section 16.

For the full text of the R phrases mentioned in this Section, see Section 16.

4.1 Description of First Aid Measures

General information

Show this sheet to the doctor

Inhalation.

Move the person away from the contaminated zone to fresh air, if necessary contact a doctor.

Skin contact.

Immediately remove contaminated clothing and shoes. Wash the skin immediately with plenty of water. Do not use solvents or thinners. If necessary contact a doctor.

Eye contact

Rinse immediately with plenty of clean, fresh water for at least 15 minutes, also under the eyelids, keeping the eyes wide open. If necessary contact a doctor, preferably an ophthalmologist.

Ingestion.

Rinse mouth with plenty of water. Never give anything by mouth if the victim is unconscious. Do not induce vomiting. Contact a doctor immediately.

4.2 Main important symptoms and effects, both acute and delayed

Symptoms. **No information available.**

4.3 Indication of any immediate medical attention and special treatment.

Treatment. **Symptomatic treatment.**

05. FIREFIGHTING MEASURES

5.1 Extinguishing media

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

20/07/2015 **Revision**: 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 4/10

Suitable extinguishing equipment:

Carbon dioxide (CO2) Powder Water spray

- 5.2 <u>Special hazards arising from the substance or mixture.</u> Fire may produce toxic and irritating gases.
- 5.3 <u>Special activities for the protection of fire prevention employees.</u> It may be necessary to use self-contained breathing apparatus and protective clothing. Cool containers exposed to fire with cold water.
- 5.4 Specific methods.

In case of fire, cool containers with water jets. Use extinguishing measures appropriate to local circumstances and the surrounding environment. In accordance with local regulations dispose both contaminated firefighting water and residues of fire in a proper way in order not to contaminate surface or ground water.

06. ACCIDENTAL RELEASE MEASURES

- 6.1 <u>Personal precautions, protective equipment and procedures in case of emergency.</u> See Section 8 for personal protective equipment. Avoid contact with skin, eyes and clothing. If the exposure level is unknown, wear a positive pressure approved and self-contained respirator. If the exposure level is known, wear an approved respirator suitable to exposure level.
- 6.2 <u>Environmental precautions.</u> In case of spillage of small quantities wash with water to prevent slipping. Do not allow the product to go into sewers or waterways. If the product comes into contact with lakes, rivers, sewers, inform the appropriate authorities in accordance with local laws.
- 6.3 <u>Methods and materials for containment and cleaning.</u> Contain and collect spillage with non- combustible absorbent material (e.g. sand, earth, diatomite, vermiculite) and place in a container for disposal according to local or national regulations (see section 13). Flush away traces with water.
- 6.4 <u>Reference to other sections.</u> See Section 7 for information on safe handling; Section 13 for disposal information

07. HANDLING AND STORAGE

- 7.1 <u>Precautions for safe handling.</u> See Section 8 for personal protective equipment. Avoid contact with skin, eyes and clothing. Keep the absorbent material as a precaution in case of spills.
- 7.2 Conditions for safe storage, including any incompatibilities.

Material for packaging

Avoid degradation of the product and the corrosion of equipment; do not use iron, copper or aluminium containers or equipment.

Materials to avoid:

Strong oxidizing agents Storage stability:

Storage temperature 4 - 32 °C

7.3 Specific final uses.

Not listed

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

20/07/2015 **Revision :** 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 5/10

08. EXPOSURE/PERSONAL PROTECTION CONTROLS

8.1 <u>Exposure Limit Values.</u> It doesn't contain substances with professional exposure limit value

PNEC: No data available.

8.2 Exposure controls.

8.2.1 Suitable technical controls.

Handle in accordance with good practice of industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing. Do not breathe vapours. Ensure that eyewash stations and safety showers are close to the workstation.

Provide adequate ventilation.

8.2.2 Individual protection measures, such as personal protective equipment.

Hand protection.

Glove material: Nitrile rubber

Please observe the instructions regarding permeability and breakthrough time which are provided by the glove supplier. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Eye protection. Tightly fitting safety goggles or face shield.

Skin and body protection. Wear work clothes with long sleeves. All exposed parts must be washed after contact.

In case of insufficient ventilation, wear suitable respiratory equipment. (filter ABEK-P2)

8.2.3 Environmental exposure controls. No data available

Respiratory protection.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information (appearance, odour)

Appearance: Colour: Odour: liquid, emulsion opaque, greenish white hydrocarbon-like

3,0÷6,0 (emulsion in water)

Important information on health, safety and environment

pH: Melting point/freezing point:: Boiling point:

Flash point:

6/13 - non determined 100 °C 100 °C > 93 °C (closed cup) (Pensky-Martens)

Vapour pressure:

Point/boiling range Flash point: 100 °C > 93 °C (closed cup) (Pensky-Martens)

n.a.

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product :HYDROFDate of revision:20/07/2015Date of creation:30/05/1996Date of printing:05.11.2015

HYDROFLOC T-43

20/07/2015 **Revision**: 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 6/10

	Evaporation rate	No data available
	Explosive properties: Lower explosive limit	No data available
	Upper explosive limit Vapour Relative vapour density	No data available Similar to water
	Density The solubility/ies:	Similar to water about. 1,0 g/cm 3
	Water solubility Partition coefficient: n-octanol/water Auto-ignition temperature	Limited by viscosity. Non applicable No data available
	Thermal decomposition Viscosity: Viscosity, kinematic	No data available > 7 mm²/s (40 °C)
	Comburent Saturation in air (%vol)	The substance or mixture is not classified as comburent. No data available
9.2 <u>O</u>	ther information	
	Surface tension Corrosion	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

The product is stable under normal conditions

10.3 Possibility of hazardous reactions		
Hazardous reactions	:	No hazardous polymerisation occurs
10.4 Conditions to avoid		
Conditions to avoid	:	not known
10.5 Incompatible materials		
Materials to avoid	:	strong oxidants
10.6 Hazardous decomposition products		
Hazardous decomposition products	:	Ammonia carbon oxides (COx)

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

20/07/2015 **Revision :** 8.0 30/05/1996 05.11.2015

:

SHEET CODE: SS11120000 Page 7/10

Nitrogen oxides (NOx) Hydrogen chloride (HCl)

Thermal decomposition

The product does not decompose if used according to specifications

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects.

Acute toxicity.

The data concerning the acute toxicity may not be related to tests on this product but extrapolated from similar products. DL50/Oral/Rat: > 5 000 mg/kg Remarks: estimated CL50/inhalation /4

h/Rat: > 20 mg/l Remarks: estimated

DL50/Dermal/on rabbit: > 2 000 mg/kg Remarks: estimated

Irritation and corrosion

Skin:

Remarks: Information given is based on data obtained from similar substances. Skin irritation Eyes: Remarks: May cause eye irritation with susceptible persons. The toxicological data refer to products of similar composition.

According to the classification criteria of the European Union, the product is not considered an eye irritant

Sensitization

Not sensitizing.

Long term toxicity

Long term toxicity

Remarks: no information available.

Carcinogenicity

Based on available data it is not possible to meet the classification criteria

Mutagenicity

Based on available data it is not possible to meet the classification criteria.

Reproductive toxicity

Based on available data it is not possible to meet the classification criteria

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing: **HYDROFLOC T-43**

20/07/2015 **Revision :** 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 8/10

12. ECOLOGICAL INFORMATION

12.1 Toxicity

CL50/96 h/Branchydanio rerio (zebrafish)/Acute toxicity/Guide line 203 for OECD test: > 1 - 10 mg/l

Remarks: fresh water

CE50/48 h/Daphnia magna (Water flea)/Immobilization/OECD TG 202: > 10 - 100 mg/l /green algae (Selenastrum capricornutum)/Growth inhibition/OECD TG 201: Remarks: Due to the cationic polymer, the test is not significant.

Toxicity to other organisms: information not available

12.2 Persistence and degradability.

Biodegradability: Growth rate of carbon dioxide (CO2)/OECD TG 301B:

The polymer ingredient is not readily biodegradable.

12.3 Potential for bioaccumulation.

Non applicable Bioaccumulation is unlikely. Due to the high molecular weight of the polymer, diffusion through biological membranes it is very low. Partition coefficient: n-octanol/water: Not applicable:

12.4 Mobility in soil.

Mobility

Water solubility: Limited by viscosity. Surface tension: No data available

12.5 <u>Results of PBT and vPvB evaluation.</u> **No data available**

12.6 Other adverse effects.

Additional ecological information: This material is not classified as dangerous for the environment. The effects on aquatic organisms are caused by external action mode (non-systemic) and are significantly reduced (by a factor of 7-20 times) after 30 minutes because of the bonds that the product forms with the dissolved organic substances or inorganic adsorbents such as clay and silt. All eco-toxicological information provided come from surveys conducted on a product structurally similar.

13. WASTE DISPOSAL

13.1 Waste treatment methods

Product

: Must be disposed of as dangerous waste. The recycle, recovery and reuse of material are recommended if permitted by regulations in force. If recycle is not practicable, dispose of in compliance local regulations. Incineration is recommended.

Contaminated packaging : the dirty packaging must be disposed in the same way adopted of the product itself.

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

20/07/2015 **Revision :** 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 9/10

14. TRANSPORT INFORMATION

14.1 ONU number.

Road transport	:	No dangerous goods under transport regulations.
Sea transport	:	No dangerous goods under transport regulations
Air transport	:	No dangerous goods under transport regulations.

14.6 Special precautions for users

Not known

15. REGULATORY INFORMATION

15.1 Rules and legislation on health, safety and environment specific to the substance or mixture.

Other legislations	:	None
		This safety data sheet complies with the requirements CE) Regulation Num. 1907/2006
Notification status		
	:	All components of this product are included on the TSCA Chemical inventory or are not required to be included on the TSCA chemical inventory.
	:	All the components of this product are included on the Domestic Chemicals List (DSL) or are not required to be included on the DSL
	:	All the components of this product are included on the European Inventory of Existing Chemical Substances (EINECS - European Inventory of Existing Chemical Substances) or are not required to be included on the EINECS.
	:	All the components of this product are included on the Australian Inventory of Chemical Substances (AICS).
	:	All the components of this product are included in the Chinese Inventory or are not required to be included on the Chinese Inventory.
	:	All the components of this product are included on the Japanese inventory (ENCS) or are not required to be included on the Japanese inventory.
	:	All the components of this product are included on the Korean inventory (ECL) or are not required to be included on the Korean inventory.
	:	All the components of this product are included on the Philippines inventory (PICCS) or are not required to be included on the Philippines inventory.
	:	The status of this product has not been determined in the Inventory of New Zealand Chemical Substances (NZIoC).
	:	The status of this product has not been determined in the Inventory of Control law of Taiwan Chemical Substances.

According to CE Regulations 1907/2006 (Reach) Modified with (UE) Regulations n.453 / 2010 and CPL Regulations 1272/08



Product : Date of revision: Date of creation: Date of printing:

HYDROFLOC T-43

20/07/2015 **Revision :** 8.0 30/05/1996 05.11.2015

SHEET CODE: SS11120000 Page 10/10

15.2 <u>Chemical safety assessment.</u> The chemical risk assessment is not required for this mixture

16. OTHER INFORMATION

References to H phrases under full text mentioned in section 3.

H302	Harmful if swallowed.	
H318	It causes serious eye damage.	
H412	Harmful to aquatic life with long lasting effects.	
H319	It causes serious eve irritation.	

H304 It can be fatal in case of ingestion and penetration of respiratory tract.

Text of R phrases mentioned in section 3

R22	Harmful if swallowed.
R41	It causes serious eye damage.
R36	Irritating to eyes.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

Training advice

Read the safety data sheet before the use of the chemical.

Further information

The information provided in this Safety Data Sheet is correct according to our best knowledge at the product at the moment of publication. This information is provided for the sole purpose of enabling the use, storage, transport and disposal of the product in the most correct and secure way. This information should not be considered a warranty or specification of product quality. The information relates only to the specific material designated and may not be valid for the same when used in combination with other materials or in any process, unless specified in the text of the Material Safety data sheet.

Sources of main data used to draw up the sheet

Regulations, databases, literature, own tests.

Additions, Deletions, Revisions

Major alterations have been observed with vertical lines.