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## Safety Data Sheet

According to Annex II of the Regulation (EC) n. 1907/2006 (REACH)

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

#### 1.1. Product identifier

Company Code: 02864190166  
Name: PROFLON FP (FluoroProtein foam concentrate)  
Synonyms: PROFLON FP 3  
PROFLON FP 6  
PROFLON-FP 3 UL

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

Description/use: Fire-fighting foam concentrate liquid. Dilute to the desired concentration (3% to 6%).  
Uses advised against: Do not use the product for purposes other than those indicated in point 1.2

#### 1.3. Details of the supplier of the safety data sheet

Business name: PROFOAM INTERNATIONAL  
Address: 22, Av. Rene Coty  
Location and State: 75014 Paris  
France  
tel: +33 1 44 08 66 56  
e-mail: profoam@profoam.fr

Responsible for the Sheet: PROFOAM s.r.l.  
Via G. Marconi, 21  
28060 - San Pietro Mosezzo (NO)  
Italy

#### 1.4. Emergency telephone number

Tel: +39 0321 48 55 11

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is not classified as dangerous under the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). However, the product requires a safety data sheet upon request in accordance with the provisions of Annex II of Regulation (EC) no. 1907/2006 (in the version currently updated by Regulation (EU) 2020/878).  
Any additional information regarding health and / or environmental risks is given in the sections 11 and 12 of this sheet.

#### 2.2. Label elements

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms: --

Signal word: --

Hazard statements: --

Precautionary statements: --

Additional information: EUH210 Safety data sheet available on request

#### 2.3. Other hazards

Based on the available data, the product does not contain PBT or vPvB substances, SVHC in Candidate List or endocrine disruptor in a percentage equal or higher than 0.1%.

### SECTION 3. Composition/information on ingredients

#### 3.2. Mixtures

sodium p-cumenesulphonate

CAS: 15763-76-5


EC: 239-854-6

Registration N.: 01-2119489411-37

Eye Irrit. 2 H319

2,5 % ≤ x < 3,5%

2-methylpentane-2,4-diol

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CAS: 107-41-5  
EC: 203-489-0  
Index: 603-053-00-3  
Registration N.: 01-2119539582-35

Skin Irrit. 2 H315  
Eye Irrit. 2 H319

$2\% \leq x < 3\%$

iron (II) sulfate heptahydrate  
CAS: 7782-63-0  
EC: 231-753-5  
Index: 026-003-01-4  
Registration N.: 01-2119513203-57

Acute Tox. 4 H302  
Skin Irrit. 2 H315 (Specific limit C  $\geq 25\%$ )  
Eye Irrit. 2 H319

$1,5\% \leq x < 2,5\%$

Other non-hazardous components:  
Protein base

$90\% \leq x < 98\%$

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids well. Consult a doctor if the problem persists.

SKIN: Remove contaminated clothing. Take a shower immediately. Wash the contaminated garments before reusing them.

INHALATION: Bring the subject to fresh air. If breathing stops, give artificial respiration. Call a doctor immediately.

INGESTION: Call a doctor immediately. Do not induce vomiting. Do not give anything that is not expressly authorized by your doctor.

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

No specific information on symptoms and effects caused by the product is known.

### 4.3. Indication of any need to immediately consult a doctor and special treatments

Information not available.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

Not applicable – fire-fighting product.

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

Non-combustible product. No thermal decomposition products are known.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

It is good practice to cool the containers with water jets to avoid the decomposition of the product and the development of substances potentially dangerous for health. However, thermal decomposition products are not known. Always wear the complete fire protection equipment. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to the regulations in force.

#### EQUIPMENT

Normal firefighting clothing, such as an open circuit compressed air breathing apparatus (EN137), fireproof suit (EN469), flame retardant gloves (EN659) and firefighter boots (HO A29 or A30).

## SECTION 6. Accidental release measures

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

Stop the leak if there is no danger.

Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions.

### 6.2. Environmental precautions

Prevent the product from entering drains, surface waters and ground water.

### 6.3. Methods and material for containment and cleaning up


Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.

Make sur of adequate ventilation of the area affected by the loss. Disposal of the contaminated material must be carried out in accordance with the provisions of section 13.

### 6.4. Reference to other sections

Any information regarding personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

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### 7.1. Precautions for safe handling

Handle the product after consulting all the other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering areas where you eat.

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

Store only in the original container. Keep the containers closed, in a well-ventilated place, away from direct sunlight. Keep the containers away from any incompatible materials, checking section 10.

### 7.3. Specific end use(s)

Fire-fighting foam concentrate liquid. Dilute to the desired concentration (3% to 6%). Do not use the product for purposes other than those indicated.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

DNEL / DMEL

sodium p-cumenesulphonate			
Chronic skin exposure	7.6 mg/kg/bw/day	workers	systemic effects
Chronic inhalation exposure	53.6 mg/m <sup>3</sup>	workers	systemic effects
Chronic skin exposure	3.8 mg/kg/bw/day	consumers	systemic effects
Chronic inhalation exposure	13.2 mg/m <sup>3</sup>	consumers	systemic effects
2-methylpentane-2,4-diol			
Acute inhalation exposure	49 mg/m <sup>3</sup>	consumers	local effects
Chronic inhalation exposure	25 mg/m <sup>3</sup>	consumers	local effects
Chronic oral exposure	1.5 mg/kg/bw/day	consumers	systemic effects
Chronic inhalation exposure	7.8 mg/m <sup>3</sup>	consumers	systemic effects
Chronic skin exposure	15 mg/kg/bw/day	consumers	systemic effects
Acute inhalation exposure	98 mg/m <sup>3</sup>	workers	local effects
Chronic inhalation exposure	49 mg/m <sup>3</sup>	workers	local effects
Chronic inhalation exposure	44.4 mg/m <sup>3</sup>	workers	systemic effects
Chronic skin exposure	42 mg/kg/bw/day	workers	systemic effects
iron (II) sulfate heptahydrate			
Acute oral exposure	20 mg/kg/bw/day	consumers	systemic effects
Chronic skin exposure	1.4 mg/kg/bw/day	consumers	systemic effects
Chronic oral exposure	0.28 mg/kg/bw/day	consumers	systemic effects
Chronic skin exposure	2.8 mg/kg/bw/day	workers	systemic effects
PNEC			
sodium p-cumenesulphonate			
Fresh water	0.23 mg/l		
Waste water treatment plant	100 mg/l		
Intermittent release, water	2.3 mg/l		
2-methylpentane-2,4-diol			
Fresh water	0.429 mg/l		
Sea water	0.0429 mg/l		
Fresh water sediments	1.59 mg/kg		
Sea water sediments	0.159 mg/kg		
Intermittent release, water	4.29 mg/l		
Waste water treatment plant	20 mg/kg		
Terrestrial compartment	0.066 mg/kg		

### 8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration.

For the selection of personal protective equipment, ask your chemical suppliers for advice.

Individual protection devices must bear the CE mark attesting to their compliance with current regulations.

Provide emergency shower with visocular tray.

#### EYE PROTECTION

We recommend wearing protective airtight goggles (ref. Standard EN 166).


#### SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use of category I (ref. Regulation 2016/425 and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

#### HAND PROTECTION

Protect your hands with category III work gloves (ref. Standard EN 374).

For the final choice of material for work gloves, the following must be considered: compatibility, degradation, breakage time and permeation.

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In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is unpredictable. Gloves have a wear time that depends on the duration and mode of use.

#### RESPIRATORY PROTECTION

If the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to wear a mask with type B filter whose class (1, 2 or 3) must be chosen in relation to the concentration limit of use. (ref. standard EN 14387). If there are gases or vapours of a different nature and / or gases or vapours with particles (aerosols, fumes, mists, etc.) combined type filters must be provided.

The use of respiratory protective equipment is necessary if the technical measures adopted are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection offered by the masks is however limited.

In the event that the considered substance is odourless or its olfactory threshold is higher than the relative TLV-TWA and in case of emergency, wear an open circuit compressed air breathing apparatus (ref. Standard EN 137) or a breathing apparatus outdoor air (ref. standard EN 138). For the correct choice of the respiratory protection device, refer to the EN 529 standard.

#### ENVIRONMENTAL EXPOSURE CHECKS

Emissions from production processes, including those from ventilation equipment, should be checked for compliance with environmental protection regulations.

## SECTION 9. Physical and chemical properties

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

a) Physical state:	liquid
b) Colour:	brown
c) Odour:	characteristic
d) Melting point/freezing point:	not available
e) Boiling point or Initial boiling point and boiling range:	not available
f) Flammability:	not available (fire-fighting product)
g) Lower and upper explosion limit:	not available
h) Flash point:	not available
i) Auto-ignition temperature:	not available
j) Decomposition temperature:	not available
k) pH:	6.0 - 7.5 (20°C)
l) Kinematic Viscosity:	not available
m) Solubility:	not available
n) Partition coefficient: n-octanol/water (log value):	not available
o) Vapour pressure:	not available
p) Density and/or relative density:	1.13 - 1.16 g/ml (20°C)
q) Relative vapour density:	not available
r) Particle characteristics:	not applicable

### 9.2. Other information

9.2.1. Information with regard to physical hazard classes  
not available

9.2.2. Other safety characteristics  
not available

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

In normal use and storage conditions dangerous reactions are not predictable.

### 10.4. Conditions to avoid

None in particular. However, follow the usual precautions against chemical products.


### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

## SECTION 11. Toxicological information

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### 11.1. Information on toxicological effects

#### ACUTE TOXICITY

The mixture does not meet the classification criteria for this hazard class.

Protein base		
OECD 420	--	LD50 (Oral) > 2000 mg/kg
calculation method	--	LD50 (Cutaneous) not classified (no relevant component)
calculation method	--	LC50 (Inhalation) not classified (no relevant component)
sodium p-cumenesulphonate		
OECD 401	rat	LD50 (Oral) > 7000 mg/kg
2-methylpentane-2,4-diol		
--	rat	LD50 (Oral) > 2000 mg/kg
OECD 402	rat	LD50 (Cutaneous) > 2000 mg/kg
iron (II) sulfate heptahydrate		
OECD 401	mouse	LD50 (Oral) 1025 mg/kg
--	rat	LD50 (Oral) > 2000 mg/kg
--	rat	LD50 (Cutaneous) > 2000 mg/kg (read-across)

#### SKIN CORROSION/IRRITATION

The mixture does not meet the classification criteria for this hazard class.

iron (II) sulfate heptahydrate		
--	rabbit	not relevant (solution at 25%)
--	rabbit	severe erythema, mild edema and peeling of the skin

#### SERIOUS EYE DAMAGE/IRRITATION

The mixture does not meet the classification criteria for this hazard class.

2-methylpentane-2,4-diol		
--	rabbit	Eye irritation reversible in 21 days

#### RESPIRATORY OR SKIN SENSITISATION

The mixture does not meet the classification criteria for this hazard class.

2-methylpentane-2,4-diol		
OECD 406	guinea pig	Maximisation test: negative

#### GERM CELL MUTAGENICITY

The mixture does not meet the classification criteria for this hazard class.

2-methylpentane-2,4-diol		
--	bacteria	AMES test: negative
OECD 476	mammalian cells	In vitro test: negative

#### CARCINOGENICITY

The mixture does not meet the classification criteria for this hazard class.

#### REPRODUCTIVE TOXICITY

The mixture does not meet the classification criteria for this hazard class.

iron (II) sulfate heptahydrate		
--	mouse	NOAEL 160 mg/kg bw/day
2-methylpentane-2,4-diol		
OECD 421	rat	Effects on fertility: reproductive toxicity screening (oral): negative
OECD 414	rat	Effects on fetal development (oral): negative


#### STOT-SINGLE EXPOSURE

The mixture does not meet the classification criteria for this hazard class.

#### STOT-REPEATED EXPOSURE

The mixture does not meet the classification criteria for this hazard class.

iron (II) sulfate heptahydrate		
--	rat, oral subacute	NOAEC 31.2 mg/kg bw/day
--	rabbit, inhalation subacute	LOAEL 1.4 mg/m <sup>3</sup>
2-methylpentane-2,4-diol		
OECD 408	rat, oral, 90 days	NOAEL ≥ 450 mg/kg

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#### ASPIRATION HAZARD

The mixture does not meet the classification criteria for this hazard class.

#### 11.2. Information on other hazards

According to available data, the product does not contain endocrine disruptors in percentage greater than 0.1%.  
No other known hazards.

## SECTION 12. Ecological information

#### 12.1. Toxicity

The mixture does not meet the classification criteria for this hazard class.

Protein base

OECD 201	algae ( <i>S. subspicatus</i> )	IC50 130 mg/l/72h
OECD 202	crustaceous ( <i>D. magna</i> )	LC50 9200 mg/l/48h
OECD 203	fishes ( <i>Danio rerio</i> )	LC50 6000 mg/l/96h
DIN 38412-3	bacteria	EC50 50 ml/l

2-methylpentane-2.4-diol

--	fishes ( <i>Gambusia affinis</i> )	LC50 8510 mg/l/96h
--	crustaceous ( <i>Ceriodaphnia dubia</i> )	EC50 2800 mg/l/48h
OECD 201	alga ( <i>Pseudokirchneriella subcapitata</i> )	EC50 > 429 mg/l/72h
--	microorganisms	NOEC 200 mg/l/10d

#### 12.2. Persistence and degradability

Protein base

OECD 301F	28 days	80.1%
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sodium p-cumenesulphonate

OECD 301B	28 days	100%
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2-methylpentane-2.4-diol

Readily biodegradable:

OECD 301F	28 days	81%
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iron (II) sulfate heptahydrate

Biodegradation is not relevant for inorganic substances.

#### 12.3. Bioaccumulative potential

Information not available for the mixture.

sodium p-cumenesulphonate

--	logKow	-1.1
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2-methylpentane-2.4-diol

--	logKow	0 (calculation)
----	--------	-----------------

iron (II) sulfate heptahydrate

The substance is not bioaccumulative.

#### 12.4. Mobility in soil

Information not available for the mixture.

#### 12.5. Results of PBT and vPvB assessment

Based on the available data, the product does not contain PBT or vPvB substances in a percentage higher than 0.1%.

#### 12.6. Other adverse effects

Information not available.

## SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods


Reuse, if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partly contains this product must be assessed according to the laws in force.

Disposal must be entrusted to an authorized waste management company, in compliance with national and local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

## SECTION 14. Transport information

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**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

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**

Substances in Candidate List (Art. 59 REACH)

Based on the available data, the product does not contain SVHC substances in a percentage higher than 0.1%.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to restriction (Annex XVII REACH)

None

Substances subject to export notification obligation Reg. (CE) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

**Sanitary checks**

Workers exposed to this hazardous chemical agent must be subjected to health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the safety and health of the worker has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

**15.2. Chemical safety assessment**


The product is not dangerous therefore a chemical safety assessment has not been developed for it. Compliance with the provisions of this Safety Data Sheet allows the safe use of the product.

## SECTION 16. Other information

Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
EUH210	Safety data sheet available on request

**LEGENDS:**

- ADR: European agreement for the transport of Dangerous goods by Road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- CE NUMBER: Identification number in ESIS (European chemical Substances Information System)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level

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- EmS: Emergency Schedule
- GHS: Global Harmonized System for the classification and labelling of chemical products
- IATA DGR: Regulation for the transport of Dangerous Goods of the International Air Transport Association
- IC50: Immobilization Concentration of 50% of the population subjected to tests
- IMDG: International Maritime code for the transport of Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in the Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: 50% Lethal Dose
- OEL: Occupational Exposure Level
- PBT: Persistent, Bioaccumulating and Toxic according to REACH
- PEC: Predictable Environmental Concentration
- PEL: Predictable level of exposure
- PNEC: Predictable No-Effect Concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- SVHC: Substances of Very High Concern
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that must not be exceeded during any time of occupational exposure.
- TWA STEL: Short-Term Exposure Limit
- TWA: Average Weighted Exposure Limit
- VOC: Volatile Organic Compound
- vPvB: Very Persistent and Very Bioaccumulative according to REACH
- WGK: Class of aquatic hazard (Germany).

#### GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH) and s.a.a
2. Regulation (EC) 1272/2008 of the European Parliament (CLP) and s.a.a
3. The Merck Index. – 10<sup>th</sup> edition
4. Handling Chemical Safety
5. INRS - Toxicological Data
6. Patty - Industrial Hygiene and Toxicology
7. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 edition
8. IFA GESTIS Website
9. ECHA Agency Website
10. Database of chemical substance SDS models - Ministry of Health and National Institute of Health

#### Note to the user:

The information contained in this sheet is based on the knowledge available from us at the date of the latest version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product. This document must not be interpreted as a guarantee of any specific property of the product.

Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force concerning hygiene and safety under his own responsibility. No liability is assumed for improper use.

#### Changes compared to previous revisions:

- rev 1 : first version of SDS
- rev 2 : revision of sec. 2 & 3
- rev 3 : revision of sec. 3 & 9
- rev 4 : completely revised
- rev 5 : completely revised
- rev 6 : revision of sec. 2 & 9
- rev 7 : this version completely revised
- rev. 8 : this revision aims to adapt the SDS to Regulation (EU) 2020/878