



PROVEX AR (All purpose FP-AR)

Page 1 of 8

Safety data sheet dated 26.09.2017

Revision 0

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

1.1. Product Identifier

Trade name: **Provex AR**

Mixture identification: **PROVEX AR 3.3, PROVEX AR 3.6, PROVEX AR 6.6**

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

All Purpose Fluoroprotein (FP AR) fire fighting foam compound

1.3. Details of the supplier of the safety data sheet

PROFOAM SRL - via Marconi, 21 - 28060 San Pietro Mosezzo (NO) - Italy

1.4. Supplier and/or authorised advisory centre:

PROFOAM INTERNATIONAL - 22, avenue René Coty - 75014 Paris - France

Tél. 01.44.08.66.56 - fax. 01.44.08.66.53 - email : profoam@profoam.fr


1.5. Emergency telephone number 24h/24 :


Profoam srl - Italie - Tel. +39 0321 48.55.11

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

 Warning, Skin Irrit. 2, Causes skin irritation.

 Danger, Eye Dam. 1, Causes serious eye damage.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:



Danger

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P264 Wash ... thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water/...



PROFOAM INTERNATIONAL - 22, Av. René Coty - 75014 Paris - France
Tel: +33 1 44 08 66 56 - Email: profoam@profoam.fr - [Http://www.profoam.it](http://www.profoam.it)

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

2-methylpropan-1-ol; iso-butanol

Zinc Chloride

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning the CLP regulation and corresponding classification:

>= 3% - < 5% 2-methylpropan-1-ol; iso-butanol

Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0



2.6/3 Flam. Liq. 3 H226



3.8/3 STOT SE 3 H335



3.2/2 Skin Irrit. 2 H315



3.3/1 Eye Dam. 1 H318



3.8/3 STOT SE 3 H336

>= 1% - < 3% 2-methylpentane-2,4-diol

Index number: 603-053-00-3, CAS: 107-41-5, EC: 203-489-0



3.2/2 Skin Irrit. 2 H315



3.3/2 Eye Irrit. 2 H319

>= 1% - < 3% Zinc Chloride



4.1/A1 Aquatic Acute 1 H400



4.1/C1 Aquatic Chronic 1 H410



3.1/4/Oral Acute Tox. 4 H302



3.2/1B Skin Corr. 1B H314

>= 1% - < 3% iron (II) sulphate



3.1/4/Oral Acute Tox. 4 H302



3.2/2 Skin Irrit. 2 H315



3.3/2 Eye Irrit. 2 H319

4. FIRST AID MEASURES**4.1. Description of first aid measures**

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

5. FIRE-FIGHTING MEASURES**5.1. Extinguishing media**

This preparation is an extinguishing media.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for fire-fighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under points 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand.

6.3. Methods and material for containment and cleaning up
Wash with plenty of water.

6.4. Reference to other sections
See also sections 8 and 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities
Keep away from food, drink and feed.

Incompatible materials:
None in particular.

Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)
None in particular

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1
ACGIH - TWA (8h): 50 ppm - Notes: Skin and eye irr

2-methylpentane-2,4-diol - CAS: 107-41-5
ACGIH - TWA (8h): 25 ppm - STEL: 50 ppm - Notes: (V) - Eye and URT irr
ACGIH - STEL: 10 Mg/m³ - Notes: (I, H) - Eye and URT irr

DNEL Exposure Limit Values
N.A.

PNEC Exposure Limit Values
N.A.

8.2. Exposure controls

Eye protection:
Eye glasses with side protection.

Protection for skin:
Protective apron.

Protection for hands:
Butyl caoutchouc (butyl rubber).

Respiratory protection:
Not needed for normal use.

Thermal Hazards:
None

Environmental exposure controls:
None

Appropriate engineering controls:
None

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Dark colour liquid	--	--
Odour:	characteristic	--	--
Odour threshold:	N.A.	--	--
pH:	6 - 8	--	--
Melting point / freezing point:	- 15° C	--	--
Initial boiling point and boiling range:	> 100° C	--	--
Flash point:	> 100 ° C	--	--
Evaporation rate:	N.A.	--	--
Solid/gas flammability:	N.A.	--	--
Upper/lower flammability or explosive limits:	N.A.	--	--
Vapour pressure:	N.A.	--	--
Vapour density:	< 1	--	--
Relative density:	1.13 - 1.17 g/ml	--	--
Solubility in water:	Soluble	--	--
Solubility in oil:		--	--
Partition coefficient (n-octanol/water):	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
Viscosity:	<100 cSt	--	--
Explosive properties:	not explosive	--	--
Oxidizing properties:	not burning	--	--

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.	--	--
Fat Solubility:	N.A.	--	--
Conductivity:	N.A.	--	--
Substance Groups relevant properties	N.A.	--	--

10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

COx

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicological information of the product:

Provex AR

b) skin corrosion/irritation:

Test: Skin Irritant - Species: Rabbit Yes

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Yes

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

LD50 (RAT) ORAL: 2460 Mg/Kg

Toxicological information of the main substances found in the product:

N.A.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

N.A.

12.2. Persistence and degradability

Biodegradability:

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recover if possible. Send to authorised plants for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. TRANSPORT INFORMATION

14.1. UN number:

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name:

N.A.

14.3. Transport hazard class(es):

Rail/Road(RID/ADR):	Not dangerous good
ADR-Upper number:	Not dangerous good
Air (ICAO/IATA):	Not dangerous good
Sea (IMO/IMDG): N.A.	Not dangerous good

14.4. Packing group:
N.A.

14.5. Environmental hazards:
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No

14.6. Special precautions for user:
N.A.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
N.A.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)
Dir. 99/45/EEC (Classification, packaging and labelling of dangerous preparations)
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Dir. 2006/8/CE. Regulation (CE) n. 1907/2006 (REACH), Regulation (CE) n.1272/2008 (CLP),
Regulation (CE) n.790/2009.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical Safety Assessment
No Chemical Safety Assessment has been carried out for the mixture.

16. OTHER INFORMATION

Full text of phrases referred to in Section 3:
H226 Flammable liquid and vapour.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H302 Harmful if swallowed.
H314 Causes

Hazard class and hazard category	Code	Description
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Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 8: Exposure controls/personal protection

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Aquatic Chronic 3, H412	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

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