

PRF 010-G Parte A

Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 1/13

Safety data sheet

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

1.1. Product identifier

Product name PRF 010-G Parte A
Chemical name and synonym PRF 010-G Parte A

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

Intended use PU based foam.

1.3. Details of the supplier of the safety data sheet

Name Prospero s.r.l.
Full address via Emidio Villa 17

District and Country 42124 Zona Ind.le Mancasale (RE)

Italy

Tel. 0522 506161 Fax 0522 920553

e-mail address of the competent person

responsible for the Safety Data Sheet a.tirelli@immgroup.it

Product distribution by: Alberto Tirelli

1.4. Emergency telephone number

For urgent inquiries refer to +39 3487374228

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1 H318 Causes serious eye damage. Skin irritation, category 2 H315 Causes skin irritation.

Hazardous to the aquatic environment, chronic toxicity, H412 Harmful to aquatic life with long lasting effects.

category 3

2.2. Label elements

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

Hazard pictograms:



PRF 010-G Parte A

Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 2/13



Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.

H315 Causes skin 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 / eye protection / face protection.

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 POISON CENTER / doctor / . . .

Contains: 1,4-diazabicicloottano

Polyoxypropylenediamine

Glicerilpoli(ossipropilen)triammina

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification x = Conc. % Classification 1272/2008

(CLP)

1,1',1",1"'-Ethylenedinitrilotetrapropan-2-ol

CAS 102-60-3 $20 \le x < 50$ Eye Irrit. 2 H319

EC 203-041-4 INDEX -

Reg. no. 01-2119552434-41-0001

Glicerilpoli(ossipropilen)triammina

CAS 64852-22-8 10 ≤ x < 20 Eye Dam. 1 H318, Skin Irrit. 2

H315, Aquatic Chronic 3

H412

EC



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 3/13

PRF 010-G Parte A

INDEX -

Tris(2-chloro-1-methylethyl)phosphate

CAS 13674-84-5 9 ≤ x < 20 Acute Tox. 4 H302

EC 237-158-7

INDEX -

1,4-diazabicicloottano

CAS $3 \le x < 5$ Flam. Sol. 1 H228, Acute

Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315

EC

INDEX -

Reg. no. 01-2119980944-22 **Polyoxypropylenediamine**

CAS 9046-10-0 3 ≤ x < 5 Skin Corr. 1C H314, Aquatic

Chronic 3 H412

EC

INDEX -

Reg. no. 01-2119557899-12

bis(2-dimetilamminoetil)(metil)ammina

CAS 3030-47-5 $0.5 \le x < 1$ Acute Tox. 3 H311, Acute

Tox. 3 H331, Acute Tox. 4 H302, Skin Corr. 1B H314, Aquatic Chronic 3 H412

EC

INDEX -

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 contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 4/13

PRF 010-G Parte A

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products. The product is combustible and, when the powder is released into the air in sufficient concentrations and in the presence of a source of ignition, it can create explosive mixtures with air. Fires may start or get worse by leakage of the solid product from the container, when it reaches high temperatures or through contact with sources of ignition.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

PRF 010-G Parte A

Page n. 5/13

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

1,1',1",1"'-Ethylenedinitrilotetrapropan-2-ol

Con un impiego appropriato , non sono necessarie particolarimisure. Protezione anticiendio ed antiesplosione: Evitare l'accumolo di cariche elettrostatiche.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

1,1',1",1"'-Ethylenedinitrilotetrapropan-2-ol

Conservare i contenitori ermeticamente chiusi in luogo asciutto e fresco. Le basse temperature o il ghiaccio non danneggiano il prodotto. Proteggere da temperatue superiori a 70 °C. Le proprietà del prodotto cambiano irreversibilmente superando la temperatura limite.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

1,1',1",1"'-Ethylenedinitrilotetrapropan-2-ol

Predicted no-effect concentration - PNEC

Normal value in fresh water 0,085 mg/l



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 6/13

PRF 010-G Parte A

Normal value in marine water	0,0085	mg/l
Normal value for fresh water sediment	0,193	mg/kg
Normal value for marine water sediment	0,0193	mg/kg
Normal value for water, intermittent release	1,51	mg/l
Normal value of STP microorganisms	70	mg/l
Normal value for the terrestrial compartment	0,0183	mg/kg

Health - Derived no-effect level - DNEL / DMEL

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

THE - Hazara lacrimod but no bitzzi itzo available ,	TIET - HO Oxpoodi		dontinod.	
Effects on		Effects on		
consumers		workers		
Route of exposure				
Oral	VND	2,5 mg/kg/d		
Ordi	VIND	2,5 mg/kg/d		
Inhalation	VND	8,7 mg/m3	VND	29,4 mg/m3
Skin	VND	2,5 mg/kg/d	VND	4,2 mg/kg/d

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 7/13

PRF 010-G Parte A

9.1. Information on basic physical and chemical properties

liquid Appearance Colour black Not available Odour Odour threshold Not available Not available Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point > 200 °C Evaporation Rate Not available Flammability of solids and gases Not available Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Upper explosive limit Not available Vapour pressure 1 Pa Vapour density Not available

Solubility soluble in water
Partition coefficient: n-octanol/water Not available
Auto-ignition temperature Not available
Decomposition temperature Not available
Viscosity Not available
Explosive properties Not available
Oxidising properties Not available

9.2. Other information

Relative density

VOC (Directive 2010/75/EC): 0
VOC (volatile carbon): 0

SECTION 10. Stability and reactivity

10.1. Reactivity

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

1,05

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 8/13

PRF 010-G Parte A

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials

1,1',1",1"'-Ethylenedinitrilotetrapropan-2-ol

Materie da evitare : acidi forti, ossidanti forti, prodotti chimici reattivi, basi forti

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation) of the mixture:> 20 mg/l

LD50 (Oral) of the mixture:>2000 mg/kg

LD50 (Dermal) of the mixture:>2000 mg/kg

Glicerilpoli(ossipropilen)triammina

LD50 (Oral) 2690 mg/kg

LD50 (Dermal) 12500 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 9/13

PRF 010-G Parte A

Does not meet the classification criteria for this hazard class REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

Glicerilpoli(ossipropilen)triam

LC50 - for Fish

68 mg/l/96h

12.2. Persistence and degradability

Information not available

12.3. Bioaccumulative potential

Information not available

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

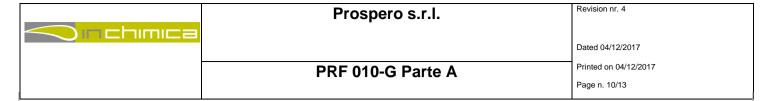
13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



The product is not dangerous unde	r current provisions of	the Code of International	Carriage of Dangerou	us Goods by Road (ADR)	and by Rail (RID), of
the International Maritime Dangerou	is Goods Code (IMDG).	and of the International	Air Transport Associat	ion (IATA) regulations.	

SECTION 14. Transport information
The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.
4.1. UN number
lot applicable
4.2. UN proper shipping name
lot applicable
4.3. Transport hazard class(es)
lot applicable
4.4. Packing group
lot applicable
4.5. Environmental hazards
lot applicable
4.6. Special precautions for user
lot applicable
4.7. Transport in bulk according to Annex II of Marpol and the IBC Code
nformation not relevant
SECTION 15. Regulatory information



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 11/13

PRF 010-G Parte A

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisarion (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

3

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Sol. 1

Acute Tox. 3

Acute toxicity, category 3

Acute toxicity, category 4

Skin Corr. 1B

Skin Corr. 1C

Eye Dam. 1

Eye Irrit. 2

Flammable solid, category 1

Acute toxicity, category 3

Acute toxicity, category 4

Skin corrosion, category 1B

Skin corrosion, category 1C

Eye Irritation, category 2

Skin Irrit. 2 Skin irritation, category 2



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 12/13

PRF 010-G Parte A

Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2 **Aquatic Chronic 3** Hazardous to the aquatic environment, chronic toxicity, category 3

H228 Flammable solid.

H311 Toxic in contact with skin.

H331 Toxic if inhaled. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety



Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017

Page n. 13/13

PRF 010-G Parte A

- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:

The following sections were modified:

02 / 03 / 16.