	Prospero s.r.l.	Revision nr. 4			
		Dated 04/12/2017			
	PRF 009-W Parte A	Printed on 04/12/2017			
	FRF 003-W Faite A	Page n. 1/13			
	Safaty data shoot				
	Safety data sheet				
<b>SECTION 1. Identification</b>	of the substance/mixture and of the company/under	taking			
1.1. Product identifier					
Product name	PRF 009-W Parte A				
Chemical name and synonym	PRF 009-W Parte A				
	e substance or mixture and uses advised against ased foam.				
1.3. Details of the supplier of the s Name	arety data sneet 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 pers	son				
responsible for the Safety Data Shee Product distribution by:	t a.tirelli@immgroup.it Alberto Tirelli				
reader dottibution by:					
<b>1.4. Emergency telephone number</b> 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:

		Prospero s.r.l.	Revision nr. 4
	imica		Dated 04/12/2017
	-		Printed on 04/12/2017
		PRF 009-W Parte A	Page n. 2/13
Signal words:	Danger		
Hazard statements:			
H318 H315 H412	Causes sl	erious eye damage. kin irritation. o aquatic life with long lasting effects.	
Precautionary statements	s:		
P264 P273 P280 P305+P351+P338 P310	Avoid rele Wear prot IF IN EYE rinsing.	thoroughly after handling. ase to the environment. ective gloves / eye protection / face protection. S: Rinse cautiously with water for several minutes. Remove con ely call a POISON CENTER / doctor /	tact lenses, if present and easy to do. Continue
Contains:	Polyoxypr	picicloottano opylenediamine i(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	$20 \le x \le 50$	Eye Irrit. 2 H319
EC 203-041-4		
INDEX -		
Reg. no. 01-2119552434-41-0001		
Tris(2-chloro-1-methylethyl)phosphate		
CAS 13674-84-5	9 ≤ x < 20	Acute Tox. 4 H302
EC 237-158-7		
INDEX -		

	Pros	pero s.r.l.	Revision nr. 4 Dated 04/12/2017
	PRF 00	9-W Parte A	Printed on 04/12/2017 Page n. 3/13
			rayen. 3/13
Glicerilpoli(ossipropilen)triammina			
CAS 64852-22-8	10 ≤ x < 20	Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 3 H412	
EC			
INDEX -			
1,4-diazabicicloottano			
CAS	3≤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	
EC		Chronic 3 H412	
INDEX -			
Reg. no. 01-2119557899-12			
bis(2-dimetilamminoetil)(metil)ammina			
CAS 3030-47-5	0,5≤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

	Prospero s.r.l.	Revision nr. 4
	-	
		Dated 04/12/2017
	PRF 009-W Parte A	Printed on 04/12/2017
		Page n. 4/13
Information not available		
SECTION 5. Firefighting	measures	
5.1. Extinguishing media		
SUITABLE EXTINGUISHING EQUIPA	1EN I e of the conventional kind: carbon dioxide, foam, powder and water spray.	
UNSUITABLE EXTINGUISHING EQU		
None in particular.		
5.2. Special hazards arising from t	he substance or mixture	
5.2. Special hazarus ansing nom t		
HAZARDS CAUSED BY EXPOSURE		
	The product is combustible and, when the powder is released into the a	
	create explosive mixtures with air. Fires may start or get worse by leakage through contact with sources of ignition.	je of the solid product from the container,
	C C	
5.3. Advice for firefighters		
GENERAL INFORMATION Use jets of water to cool the containe	rs 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 a SPECIAL PROTECTIVE EQUIPMENT		
Normal fire fighting clothing i.e. fire kit	t (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and	A30) in combination with self-contained
open circuit positive pressure compres	sed air breathing apparatus (BS EN 137).	
SECTION & Assidental		
SECTION 6. Accidental re	EIEASE IIIEASUIES	
6.1. Personal precautions, protect	ive equipment and emergency procedures	
Block the leakage if there is no hazard		
	(including personal protective equipment referred to under Section 8 on nal clothing. These indications apply for both processing staff and those in	
containination of skin, eyes and person		verved in emergency procedures.
6.2. Environmental precautions		
The product must not penetrate into th	e sewer system or come into contact with surface water or ground water.	

T	Droopers o v l	Revision nr. 4				
	Prospero s.r.l.					
		Dated 04/12/2017				
-	PRF 009-W Parte A	Printed on 04/12/2017				
		Page n. 5/13				
6.3. Methods and material for conta	inment and cleaning up					
container to be used, by checking section	able container. If the product is flammable, use explosio on 10. Absorb the remainder with inert absorbent material. I. Contaminated material should be disposed of in compliance					
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 al eat, drink or smoke during use.	I the other sections of this material safety data sheet. Avoi	d leakage of the product into the environment. Do not				
1,1',1",1"'-Ethylenedinitrilotetrapropan-2 Con un impiego appropriato , non elettrostatiche.	2-ol sono necessarie particolarimisure. Protezione anticiendi	o ed antiesplosione: Evitare l'accumolo di cariche				
7.2. Conditions for safe storage, inc	cluding any incompatibilities					
Keep the product in clearly labelled con	tainers. Keep containers away from any incompatible mater	ials, see section 10 for details.				
	2-ol e chiusi in luogo asciutto e fresco. Le basse temperature o i età del prodotto cambiano irreversibilmente superando la te					
7.3. Specific end use(s)						
Information not available						
SECTION 8. Exposure cor	SECTION 8. Exposure controls/personal protection					
8.1. Control parameters						
1,1',1",1"'-Ethylenedinitrilotetraprop Predicted no-effect concentration - PNEC	pan-2-ol					
Normal value in fresh water	0,085	mg/l				

	Prospero s.r.l.		Revision nr. 4
			Dated 04/12/2017
	PRF 009-W Parte A		Printed on 04/12/2017
			Page n. 6/13
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.

Route of exposure	Effects on consumers			Effects on workers		
Oral		VND	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

		Prospero s.r.l.	Revision nr. 4 Dated 04/12/2017
	-	PRF 009-W Parte A	Printed on 04/12/2017 Page n. 7/13

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

Appearance	liquid
Colour	yellowish
Odour	Not available
Odour threshold	Not available
рН	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
Relative density	1,05
Solubility	Not available
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	
-	

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

## **SECTION 10. Stability and reactivity**

10.1. Reactivity

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

0 0

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 009-W 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

	Prospero s.r.l.	Revision nr. 4
		Dated 04/12/2017
	PRF 009-W Parte A	Printed on 04/12/2017
		Page n. 9/13
Does not meet the classification criteria	a for this hazard class	
REPRODUCTIVE TOXICITY		
Does not meet the classification criteria	a for this hazard class	
STOT - SINGLE EXPOSURE		

Does not meet the classification criteria for this hazard class <u>STOT - REPEATED EXPOSURE</u>

Does not meet the classification criteria for this hazard class

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 mina 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.

	I. Revision nr. 4	
	Dated 04/12/2017	
PRF 009-W Par	te A Printed on 04/12/2017	
	Page n. 10/13	
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.

### 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. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

**SECTION 15. Regulatory information** 

	Prospero s.r.l.	Revision nr. 4
	- -	Dated 04/12/2017
	PRF 009-W Parte A	Printed on 04/12/2017
	FRF 009-W Farte A	Page n. 11/13
15.1. Safety, health and environme	ntal regulations/legislation specific for the substance or mixture	
Seveso Category - Directive 2012/18/E	C: None	
Restrictions relating to the product or c	ontained substances pursuant to Annex XVII to EC Regulation 1907/2006	
Product Point	3	
Substances in Candidate List (Art. 59 F	REACH)	
On the basis of available data, the proc	luct does not contain any SVHC in percentage greater than 0,1%.	
Substances subject to authorisarion (A	nnex XIV REACH)	
None		
Substances subject to exportation repo	rting pursuant to (EC) Reg. 649/2012:	
None		
Substances subject to the Rotterdam Convention:		
None		
Substances subject to the Stockholm C	Convention:	
None		
Healthcare controls		
	nt must not undergo health checks, provided that available risk-assessment da and that the 98/24/EC directive is respected.	ata prove that the risks related to the

### 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	Flammable solid, category 1	
Acute Tox. 3	Acute toxicity, category 3	
Acute Tox. 4	Acute toxicity, category 4	
Skin Corr. 1B	Skin corrosion, category 1B	
Skin Corr. 1C	Skin corrosion, category 1C	
Eye Dam. 1	Serious eye damage, category 1	
Eye Irrit. 2	Eye irritation, category 2	
Skin Irrit. 2	Skin irritation, category 2	



PRF 009-W Parte A

Revision nr. 4

Dated 04/12/2017

Printed on 04/12/2017 Page n. 12/13

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
- Regulation (EU) 2015/830 of the European Parliament
  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

Prospero s.r.l.	Revision nr. 4 Dated 04/12/2017
PRF 009-W Parte A	Printed on 04/12/2017 Page n. 13/13

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.