

EOLO

Revision nr. 1

Dated 28/04/2020

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Safety data sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: U055050004
Product name EOLO

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

Hygiene for air conditioning systems.

Uses advised against: Different uses than those intended.

1.3. Details of the supplier of the safety data sheet

Name CENTRO DISTRIBUZIONE UTENSILI SCPA

Full address Via delle Gerole, 19
District and Country 20867 CAPONAGO (MB)

ITALY

tel. +39 02 95746081 fax. + 39 02 95745182

e-mail address of the competent person

responsible for the Safety Data Sheet info@cdu.net

Product distribution by: CENTRO DISTRIBUZIONE UTENSILI SCPA

1.4. Emergency telephone number

For urgent inquiries refer to +39 02 95746081 (Technical support - Office hour 8.30-12.30 - 13.30-17.30)

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:

Aerosol, category 1 H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.
H412 Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, chronic toxicity, category $\boldsymbol{3}$

2.2. Label elements

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

Hazard pictograms:



Signal words: DANGER

Hazard statements:

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.H412 Harmful to aquatic life with long lasting effects.

EUH208 Contains:



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D-LIMONENE

ORANGE, SWEET, EXT. May produce an allergic reaction.

Precautionary statements:

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211

Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use. P273 Avoid release to the environment.

Protect from sunlight. Do no expose to temperatures exceeding 50°C / 122°F. P410+P412 P501 Dispose of contents / container in accordance with local and national regulations.

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:

	ontains: Identification PROPANE	x=Conc. %	Classification 1272/2008 (CLP)
	CAS 74-98-6 EC 200-827-9	50 ≤ x < 60	Flam. Gas 1 H220, Press. Gas H280, Note U
	INDEX 601-003-00-5		
	Reg. no. 01-2119486944-21		
	BUTANE		
	CAS 106-97-8 EC 203-448-7	20 ≤ x < 25	Flam. Gas 1 H220, Press. Gas H280, Note C U
	INDEX 601-004-00-0		
	Reg. no. 01-2119474691-32		
	ISOBUTANE		
	CAS 75-28-5 EC 200-857-2	10 ≤ x < 12,5	Flam. Gas 1 H220, Press. Gas H280, Note C U
	INDEX 601-004-00-0		
	Reg. no. 01-2119485395-27		
	PROPAN-2-OL		
	CAS 67-63-0 EC 200-661-7	7 ≤ x < 10	Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
	INDEX 603-117-00-0		
	Reg. no. 01-2119457558-25		
	ORANGE, SWEET, EXT.		
	CAS 8028-48-6 EC 232-433-8	$0.2 \le x < 0.25$	Flam. Liq. 3 H226, Asp. Tox. 1 H304, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410
	INDEX -		
	Reg. no. 01-2119493353-35		
	D-LIMONENE		
	CAS 5989-27-5 EC 227-813-5	$0,15 \le x < 0,2$	Flam. Liq. 3 H226, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410, Nota C
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INDEX 601-029-00-7

Reg. no 01-2119529223-47

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

For symptoms and effects caused by the contained substances, see section 11.

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

Information for the doctor: symptomatically treatment.

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

If overheated, aerosol cans can deform, explode and be propelled considerable distances. Put a protective helmet on before approaching the fire. Do not breathe combustion products.

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.

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

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. Send away individuals who are not suitably equipped. Wear protective gloves / protective clothing / eye protection / face protection.

6.2. Environmental precautions

Do not disperse in the environment.

6.3. Methods and material for containment and cleaning up

Use inert absorbent material to soak up leaked product. 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.



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SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid bunching of electrostatic charges. Do not spray on flames or incandescent bodies. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Do not eat, drink or smoke during use. Do not breathe spray.

7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

Storage class TRGS 510 (Germany): 21

7.3. Specific end use(s)

Hygiene for air conditioning systems.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

DEU Deutschland MAK-und BAT-Werte-Liste 2012

ESP España INSHT - Límites de exposición profesional para agentes químicos en España 2015

FRA France JORF n°0109 du 10 mai 2012 page 8773 texte n° 102

GBR United Kingdom EH40/2005 Workplace exposure limits

TLV-ACGIH ACGIH 2016

			PROPA		
Threshold Limit Value Type	Country	Country TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
AGW	DEU	1800	1000	7200	4000
MAK	DEU	1800	1000	7200	4000
TLV-ACGIH			1000		

			TANE		
Threshold Limit Value Type	TWA/8h	TWA/8h		STEL/15min	
1,700	Country	mg/m3	ppm	mg/m3	ppm
A C1M	DELL				
AGW	DEU	2400	1000	9600	4000
MAK	DEU	2400	1000	9600	4000
VLA	ESP		800		
VLEP	FRA	1900	800		
WEL	GBR	1450	600	1810	750
TLV-ACGIH				2377	1000

PROPAN-2-OL							
Threshold Limit Value	Country TMA/Ob		OTEL MEssis				
Туре	Country	TWA/8h		STEL/15min	STEL/15min		
		mg/m3	ppm	mg/m3	ppm		
AGW	DEU	500	200	1000	400		
MAK	DEU	500	200	1000	400		
VLA	ESP	500	200	1000	400		



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 VLEP
 FRA
 980
 400

 WEL
 GBR
 999
 400
 1250
 500

 TLV-ACGIH
 492
 200
 983
 400

ORANGE, SWEET, EXT.									
Threshold Limit Value Type Country TWA/8h STEL/15min									
		mg/m3	ppm	mg/m3	ppm				
AGW	DEU	110	20	220	40				

			D-LIMON	ENE						
Predicted no-effect concentr	ation - PNEC									
Normal value in fresh water				0,0054			mg/l			
Normal value in marine water	er			0,00054			mg/l			
Normal value for fresh water	sediment			1,32			mg/kg			
Normal value for marine wat	er sediment			0,13			mg/kg			
Normal value of STP microo	rganisms			1,8			mg/l			
Normal value for the food ch	ain (secondary poison	ing)		3,33			mg/kg			
Normal value for the terrestr	ial compartment			0,262			mg/kg			
Health - Derived no-effe	included no-effect concentration - PNEC nal value in fresh water nal value in marine water nal value in marine water nal value for fresh water sediment nal value for marine water sediment nal value for de food chain (secondary poisoning) nal value for the terrestrial compartment nal value for the terrestrial compartment Effects on consumers O,0054 mg/kg mg/kg mg/kg nal/kg nal value for marine water sediment nal/kg mg/l nal value for the food chain (secondary poisoning) nal value for the terrestrial compartment nal/kg mg/l secondary poisoning) Effects on workers									
	Effects on cons	sumers			Effects on wo	rkers				
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic	Acute local	Acute		Chronic local	Chronic	

 Oral
 VND
 4,76 mg/kg bw/d

 Inhalation
 VND
 8,33 mg/m3
 VND
 3,33 mg/m3

systemic

Legend:

(C) = CEILING; INHAL = Inhalable Fraction; RESP = Respirable Fraction; THORA = Thoracic Fraction.

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

TLV of solvent mixture: 492 mg/m3

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.

HAND PROTECTION

None required.

SKIN PROTECTION

Wear category I 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 airtight protective 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, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387).

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.

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

9.1. Information on basic physical and chemical properties

Appearance Spray
Colour Not available
Odour Mild citrus fruit



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g/litre

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Odour threshold Not applicable Not applicable Melting point / freezing point Not available Initial boiling point Not available Boiling range Not available Flash point < 0 °C Evaporation Rate Not available Flammability of solids and gases Not applicable Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not available Not available

Upper explosive limit
Vapour pressure
Vapour density
Relative density
Not available
Not available
Not available
Not available
Not applicable
Not applicable
Relative density
0,800 Kg/l

Solubility in water: total; in acetone: partial

Partition coefficient: n-octanol/water
Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidising properties
Not applicable

VOC (Directive 2010/75/EC) : 99,75 % - 797,99

VOC (volatile carbon) : Not available Propellant Flammability extremely flammable

Limit of propellant flammability 1,8-9,5%

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

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

10.4. Conditions to avoid

Avoid overheating.

10.5. Incompatible materials

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

10.6. Hazardous decomposition products

Information not available

SECTION 11. Toxicological information

11.1. Information on toxicological effects

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. 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.

This product contains sensitizing substance/s and may cause allergic reactions.



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ORANGE, SWEET, EXT.

LD50 (Oral) 4400 mg/kg Rat LD50 (Dermal) > 5000 mg/kg Rabbit

PROPAN-2-OL

 LD50 (Oral)
 4710 mg/kg Rat

 LD50 (Dermal)
 12800 mg/kg Rat

 LC50 (Inhalation)
 46 mg/l/4h Rat

D-LIMONENE

LD50 (Oral) > 5000 mg/kg bw Rat LD50 (Dermal) > 5000 mg/kg bw Rabbit

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

ORANGE, SWEET, EXT.

LC50 - for Fish 35 mg/l/96h Oncorhynchus mykiss EC50 - for Crustacea 69,6 mg/l/48h Daphnia pulex

PROPAN-2-OL

LC50 - for Fish 9640 mg/l/96h Pimephales Promelas EC50 - for Crustacea 2285 mg/l/48h Daphnia magna

D-LIMONENE

LC50 - for Fish 0,72 mg/l Pimephales promelas

EC50 - for Crustacea 0,36 mg/l/48h Daphnia

EC50 - for Algae / Aquatic Plants 8 mg/l/72h Desmodesmus subspicatus

12.2. Persistence and degradability

ORANGE, SWEET, EXT.

Solubility in water 0,1 - 100 mg/l

Entirely biodegradable.

BUTANE

Solubility in water 0,1 - 100 mg/l

Rapidly biodegradable.

PROPANE

Solubility in water 0,1 - 100 mg/l

Rapidly biodegradable.

PROPAN-2-OL

Solubility in water Soluble

Rapidly biodegradable.

T CHEM

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D-LIMONENE

Solubility in water 5,96 mg/l

12.3. Bioaccumulative potential

ORANGE, SWEET, EXT.

Partition coefficient: n-octanol/water 4,38 BCF 1022

BUTANE

Partition coefficient: n-octanol/water 1,09

PROPANE

Partition coefficient: n-octanol/water 1,09

PROPAN-2-OL

Partition coefficient: n-octanol/water 0,05

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.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1950

14.2. UN proper shipping name

ADR / RID: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)



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ADR / RID:

Class: 2

Label: 2.1

IMDG:

Class: 2

Label: 2.1

IATA:

Class: 2

Label: 2.1

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14.4. Packing group

ADR / RID, IMDG, IATA:

14.5. Environmental hazards

ADR / RID: NO IMDG: NO IATA: NO

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: --

Limited Quantities: 1 L

Limited Quantities: 1 L

Tunnel restriction code: (D)

Special Provision: -

IMDG: IATA: EMS: F-D, S-U

Maximum quantity: 150 Kg

Cargo: Pass.:

Maximum quantity: 75 Kg

Packaging instructions: 203 Packaging instructions: 203

Special Instructions: A145, A167, A802

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Information not relevant.

SECTION 15. Regulatory information

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

Seveso category 8

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

Product

Point 40

Substances in Candidate List (Art. 59 REACH)

None.

Substances subject to authorisarion (Annex XIV REACH)

None.

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

None.

Substances subject to the Rotterdam Convention:

None



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Substances subject to the Stockholm Convention: None.

Healthcare controls

Information not available.

German regulation on the classification of substances hazardous to water (VwVwS 2005)

WGK 2: Hazard to waters.

15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture.

SECTION 16. Other information

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

Flam. Gas 1 Flammable gas, category 1

Aerosol 1 Aerosol, category 1
Aerosol 3 Aerosol, category 3

Flam. Liq. 2 Flammable liquid, category 2
Flam. Liq. 3 Flammable liquid, category 3

Press. Gas Pressurised gas

Asp. Tox. 1 Aspiration hazard, category 1

Eye Irrit. 2 Eye irritation, category 2

Skin Irrit. 2 Skin irritation, category 2

Skin Sens. 1 Skin sensitization, category 1

STOT SE 3 Specific target organ toxicity - single exposure, category 3

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1

Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1

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

H220 Extremely flammable gas.H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated.

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H280 Contains gas under pressure; may burst if heated.H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very 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)



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- 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 (EÚ) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

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.