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Spilsby Road • Harold Hill • Romford • RM3 8SB • **T** 020 8501 6730 • **E** [info@wfa.uk.net](mailto:info@wfa.uk.net) • **W** [www.wfa.uk.net](http://www.wfa.uk.net)

Registered in England under Company No: 03746590 VAT No: 765 9995 45

## ADECEM FIBER




### FIBRE-REINFORCED SELF-LEVELLER

Fibre-reinforced concrete powder self-leveller for smoothing uneven sub-floors for thicknesses of 1 to 50 mm.

#### TECHNICAL CHARACTERISTICS:

- Rapid drying
- For indoor use
- Thicknesses of 1 - 50 mm per layer
- Suitable for heated screeds
- Pumpable
- Flexible
- Suitable for wood sub-floors

#### SPECIAL PROPERTIES:

	<p>EC1 PLUS symbol Established using GEV criteria, classified as EMICODE EC1 PLUS: very low emissions.</p>
	<p>Emission class as per French regulations.</p>
	<p>Suitable for underfloor systems</p>

#### WHERE IT CAN BE APPLIED:

- Traditional, new or existing concrete screeds
- Anhydrite screeds (calcium sulphate) (with prior application of Pavilast K31 or K22)
- Surfaces of old tiles (with prior application of Pavilast K32 S)
- Rapid or semi-rapid drying screeds
- Absorbent sub-floors with underfloor heating or cooling systems
- On wood floors
- On old wooden flooring, stable and well anchored

#### SUBSEQUENT APPLICATIONS ON ADECEM FIBER:

- Tiles
- Carpet and textile finishes
- Pre-finished parquet or solid woods
- LVT
- Linoleum
- PVC

CONTINUE

## ADECEM FIBER

### SPECIFIC CHARACTERISTICS (normal conditions):

Density (g/cm <sup>3</sup> ):	1.80
Yield (kg/m <sup>2</sup> ):	1.65 to obtain a thickness of 1 mm (the yield of the product may vary depending on the porosity or flatness of the surface being treated)
Usage temperature (°C):	+5 to +35
Open time (minutes):	30
Maximum grain size (mm):	0.5
Ready for walking on (hours):	about 6 hours, depending on the environmental conditions
Laying of tiles (hours):	After 24 – 36 (after checking humidity is < 4%)
Laying of wood and resilient flooring (days):	After 3 - 4 (after checking humidity is < 2%)
Final setting (days):	7
Thermal resistance (°C):	-30 to +90
Compression resistance (N/mm <sup>2</sup> ):	After 24 hours ≥ 14 After 7 days ≥ 28 After 28 days ≥ 30
Bending strength (N/mm <sup>2</sup> ):	After 24 hours ≥ 3 After 7 days ≥ 7 After 28 days ≥ 7
Application:	smooth trowel
Equipment cleaning:	water, before the product sets
Storage (months): temperature between +5 °C and +25 °C	12
Disposal information:	Dispose of in compliance with the local and national regulations in force
Packaging:	25 kg bags
Usage limitations:	Do not add water to the mix if it has already begun to set. Always make sure an adequate vapour barrier is present. Do not use if the walls and ceilings in the room are not completely dry. Always use suitable personal protective equipment Always consult the technical and safety information sheets

### SURFACE PREPARATION:

The sub-floor to be treated must be solid, rough and dimensionally stable. It must have completed the shrinkage process, and must be hard, clean and free from dust, removable parts, varnish, wax, oil, rust, traces of plaster and of old adhesives used for PVC, carpet, etc. Do not apply on screeds that are not protected from possible rising damp (always ensure there is an appropriate vapour barrier between the screed and flooring). On low-porosity or calcium sulphate screeds, mechanical sanding of the surface is recommended, and any residual dirt, dust or loose parts must be vacuumed off the surface.

### APPLICATION:

Pour the powder (25 kg) into clean water (5.25 - 5.75 litres) and stir with an electric stirrer to obtain a smooth, even mix with no lumps and thick enough to be spread with a trowel. The mix thus obtained should be left to rest for a few minutes before applying the product with a smooth trowel in stainless steel. NB: if too much water is used, white/yellowish marks and/or streaking will appear on the surface, preventing subsequent bonding; it will also cause excessive shrinkage that may lead to cracks and fissures and cause the layer applied to come loose. Each coat must be between 1 mm and 50 mm thick. Before laying, always check the humidity level of the screed is <2% (<0.5% for anhydride screed (calcium sulphate)). Ambient temperature 5 - 35 °C, relative humidity max. 75%. Always use adequate individual protection systems. Always consult the technical and safety data sheet for the product.

### NOTES:

If the sub-floor is too dusty, it should be pre-treated with PAVILAST K31 o K22 (see data sheet). Always use our adhesives, such as PELPREN PL6, EURO 5, PELPREN PL60E, EURO GOLD, MONO MS/LE or MS GOLD FLEX, for laying wooden floors. For laying rubber, PVC or carpet, use our PELPREN PL6-G or ADETAC S adhesives only.

### HAZARD PICTOGRAMS:





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## Safety data sheet

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

#### 1.1. Product identifier.

Code: ADECEM  
Product name: ADECEM FIBER

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

Intended use: Fiber-reinforced self-leveling powder

#### For professional use.

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

Name: Adesiv s.r.l.  
Full address: Via Delle Rose, 31  
District and Country: 36061 Bassano del Grappa (Vicenza)  
Italia  
Tel. +39 0424 566406  
Fax. +39 0424 566473

e-mail address of the competent person.  
responsible for the Safety Data Sheet. laboratorio@adesiv.it

#### 1.4. Emergency telephone number.

For urgent inquiries refer to: Poison centres (24/24 h)  
Italy: +39 02 6610 1029  
Germany: +49 30 192 40  
UK: +44 844 892 0111  
France: +33 (0) 1 40 05 48 48  
Spain: +34 91 562 0420  
Russia: +7 495 628

### 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.
Skin sensitization, category 1B	H317	May cause an allergic skin reaction.

#### 2.2. Label elements.

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



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Hazard pictograms:



Signal words: Danger

Hazard statements:

**H318** Causes serious eye damage.  
**H315** Causes skin irritation.  
**H317** May cause an allergic skin reaction.  
**EUH208** Contains:  
Flue dust, Portland cement.  
  
May produce an allergic reaction.

Precautionary statements:

**P272** Contaminated work clothing should not be allowed out of the workplace.  
**P280** Wear protective gloves / eye protection / face protection.  
**P302+P352** IF ON SKIN: wash with plenty of water and soap.  
**P310** Immediately call a POISON CENTER / doctor.

**Contains:** Portland cement (Cr VI <2 ppm)  
Flue dust, Portland cement.

### 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.

### 3.2. Mixtures.

Contains:

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

Identification.	Concentration, %	Classification 1272/2008 (CLP).	SCLs
<b>Portland cement (Cr VI &lt;2 ppm)</b> CAS. 65997-15-1 EC. 266-043-4 INDEX. -	10 - < 25	Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1B H317	Not applicable.
<b>Flue dust, Portland cement</b> CAS. 68475-76-3	< 1	Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Skin Sens. 1 H317	Not applicable.



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EC. 270-659-9

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Reg. no. 01-2119486767-17-XXXX

## 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. Rinse skin with a shower immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly 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.

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

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

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.

If there are no contraindications, spray powder with water to prevent the formation of dust.

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.

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

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. 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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s).

Information not available.

## 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
GBR	United Kingdom	EH40/2005 Workplace exposure limits
HUN	Magyarország	50/2011. (XII. 22.) NGM rendelet a munkahelyek kémiai biztonságáról

### Portland cement (Cr VI <2 ppm)

#### Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
AGW	DEU	5				INHAL.
VLA	ESP	4				RESP.
WEL	GBR	10				INHAL.



WEL	GBR	4	RESP.
AK	HUN	10	INHAL.

**Flue dust, Portland cement**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,028	mg/l
Normal value in marine water	0,003	mg/l
Normal value for fresh water sediment	0,875	mg/kg
Normal value for marine water sediment	0,088	mg/kg
Normal value for water, intermittent release	0,282	mg/l
Normal value of STP microorganisms	6	mg/l
Normal value for the terrestrial compartment	5	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers		
	Acute local	Acute systemic	Chronic local	Acute local	Acute systemic	Chronic local
Inhalation.	4 mg/m3		1 mg/m3	4 mg/m3		1 mg/m3

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.

**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. 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**

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

**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**

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.

**ENVIRONMENTAL EXPOSURE CONTROLS.**

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

**SECTION 9. Physical and chemical properties.****9.1. Information on basic physical and chemical properties.**





Appearance	powder
Colour	grey
Odour	odourless
Odour threshold.	Not applicable.
pH.	11 (sol. acq. 10%)
Melting point / freezing point.	Not available.
Initial boiling point.	Not applicable.
Boiling range.	Not available.
Flash point.	Not applicable.
Evaporation Rate	Not applicable.
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.	Not applicable.
Vapour density	Not applicable.
Relative density.	Not available.
Solubility	Miscible in water.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidising properties	Not available.

**9.2. Other information.**

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.**

The powders are potentially explosive when mixed with air.

**10.4. Conditions to avoid.**

Avoid environmental dust build-up.

**10.5. Incompatible materials.**

Information not available.

**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.

#### ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture: Not classified (no significant component).

LD50 (Dermal) of the mixture: Not classified (no significant component).

#### SKIN CORROSION / IRRITATION.

Causes skin irritation.

#### SERIOUS EYE DAMAGE / IRRITATION.

Causes serious eye damage.

#### RESPIRATORY OR SKIN SENSITISATION.

Sensitising for the skin.

#### GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

#### CARCINOGENICITY.

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.

### 12.1. Toxicity.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 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%.



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#### 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.

### 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.

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

Seveso Category - Directive 2012/18/EC: None.



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

None.

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 authorisation (Annex XIV REACH).

None.

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

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:

Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road



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- 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
- 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.