

## SAFETY DATA SHEET

According to Annex II to REACH - Regulation 2015/830

### VR

One component Silicone sealant for industrial use

Revision n. **02**  
Dated **26/04/2021**  
Printed on **26/04/2021**

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Replaced revision: 01  
(Dated:16/07/2015)



## 1 - Identification of the substance/mixture and of the company/undertaking

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

Intended use	VR 03	Neutral silicone sealant - GREY (similar to RAL 7004)
	VR 04	Neutral silicone sealant - Black (similar to RAL 9005)
	VR 05	Neutral silicone sealant - Chocolate Brown (similar to RAL 8017)
	VR 24	Neutral silicone sealant - Sand Grey (similar to RAL 7032)

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

Name	Tecfi S.p.A.
Full Address	S.S.Appia km 193
District and Country	81050 Pastorano (CE) - Italia - tel. 0823 88 3338 - fax 0823 - 883260
e-mail (of the competent person responsible for the Safety Data Sheet)	rdc@tecfi.it

### 1.4. Emergency telephone number

For urgent inquiries refer to	Osp. NIGUARDA CA' GRANDA – Milano 02/66101029 CAV Policlinico "A. Gemelli" - Roma 06/3054343 Osp. "A. Cardarelli" - Napoli 081/7472870
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## 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.

Hazard classification and indication: -

### 2.2. Label elements

Hazard pictograms: -  
Signal words: -  
Hazard statements: -  
Precautionary statements: -

### 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%.

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## 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
TITANIUM DIOXIDE CAS. 13463-67-7 CE. 236-675-5 INDEX. - Nr. Reg. 01-2119489379-17	0 ≤ x < 10	

The full wording of hazard (H) phrases is given in section 16 of the sheet.  
Chemical nature: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

## 4. First aid measures

### 4.1. Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

Eye contact: Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.

Skin Contact: After contact with skin, remove product mechanically. Wash area with soap and water. Get medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Consult a physician for specific advice.

### 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 due to the contained substances, see ch. 11.

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

Hazards: No data available.

Treatment: No data available.

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## 5. Firefighting measures

General Fire Hazards:

Use standard firefighting procedures and consider the hazards of other involved materials. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

### 5.1. Extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: Avoid water in straight hose stream; that will scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: carbon oxides, silicon oxides.

### 5.3. Advice for firefighters

GENERAL INFORMATION

Cool the containers by spraying with water to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water that must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

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).

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use personal protective equipment.

### 6.2. Environmental precautions

Do not allow runoff to sewer, waterway or ground.

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

Use mechanical handling equipment. Shovel up and place in a container for salvage or disposal.

### 6.4. Reference to other sections

For emergency telephone numbers, see Section 1. Any information on personal protection and disposal is given in sections 8 and 13.

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## 7. Handling and storage

### 7.1. Precautions for safe handling

Handling: Methanol is formed during processing. Wear appropriate personal protective equipment.

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

Requirements for storage areas and containers: Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

No data available. The product is intended for industrial application only. It's not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

## 8. Exposure controls/personal protection

Recommended monitoring procedures: As this product contains ingredients with exposure limits, consequently personal, environmental, workplace and biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need to use Respiratory protection.

Refer to monitoring standards, such as the following:

European Standard EN 689 (Atmosphere in the Working Environment - Guideline for Evaluation of Inhalation Exposure to Chemical Compounds for Comparison with Limit Values and Measurement Strategy),

European Standard EN 14042 (Atmosphere in the Working Environment - Guidance on the Application and Use of Procedures for Evaluation of Exposure to Chemical and Biological Agents),

European Standard EN 482 (Atmospheres in the Working Environment - General Requirements for Measuring Procedures for Chemical Agents).

Reference should also be made to national guidance documents on methods for the determination of hazardous substances.

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
EST	Eesti	Töökeskkonna keemiliste ohutegurite piirnormid 1. Vastu võetud 18.09.2001 nr 293 RT I 2001, 77, 460 - Redaktsiooni jõustumise kp: 01.01.2008
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
PRT	Portugal	Ministério da Economia e do Emprego Consolida as prescrições mínimas em matéria de protecção dos trabalhadores contra os riscos para a segurança e a saúde devido à exposição a agentes químicos no trabalho - Diaro da Republica I 26; 2012-02-06
ROU	România	Monitorul Oficial al României 44; 2012-01-19
	TLV-ACGIH	ACGIH 2016

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### TITANIUM DIOXIDE

#### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	10			RESP
VLA	ESP	10			
TLV	EST	5			
VLEP	FRA	10			
WEL	GBR	4			
TLV	GRC		10		
NDS	POL	10			INHAL
VLE	PRT	10			
TLV	ROU	10		15	
TLV-ACGIH		10			

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,127	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	1000	mg/kg
Normal value for marine water sediment	100	mg/kg
Normal value for water, intermittent release	0,61	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the food chain (secondary poisoning)	1667	mg/kg
Normal value for the terrestrial compartment	100	mg/kg

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

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral			VND	700 mg/kg/d				
Inhalation							VND	10 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.

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Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)

Explanatory note: REACH requires manufacturers and importers to establish and report 'Derived No-Effect Levels' (DNEL's) for humans by inhalation, ingestion and dermal routes of exposure and 'Predicted No-Effect Concentrations' (PNEC's) for environmental exposure. DNEL's and PNEC's are established by the registrant without an official consultation process, and are not intended to be directly used for setting workplace or general population exposure limits. They are primarily used as input values in running Quantitative Risk Assessment models (like the ECETOC-TRA model).

Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health-based OEL for that chemical substance. Further although DNEL's (and PNEC's) are an indication for setting risk reduction measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed governmental OEL's.

### 8.2. Exposure controls

Appropriate Engineering Controls: No data available.

Individual protection measures, such as personal protective equipment (PPE).

General information: Wear suitable gloves and eye/face protection.

Eye/face protection: Safety glasses with side-shields conforming to EN166.

Skin protection

Hand Protection: Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.

Other: No data available.

Respiratory Protection: No data available.

Hygiene measures: Provide adequate ventilation. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing.

Wash hands after handling. When using do not eat, drink or smoke.

### ENVIRONMENTAL EXPOSURE CONTROLS

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

## 9. Physical and chemical properties

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

Appearance	paste	Lower explosive limit	Not available
Colour	as showed in color folder	Upper explosive limit	Not available
Odour	Not available	Vapour pressure	Not available
Odour threshold	Not available	Vapour density	Not available
pH	Not applicable	Relative density	1,40 g/cm <sup>3</sup>
Melting point / freezing point	Not available	Solubility	Not available
Initial boiling point	Not applicable	Partition coefficient: n-octanol/water	Not available
Boiling range	Not applicable	Auto-ignition temperature	Not available
Flash point	Not available	Decomposition temperature	Not available
Evaporation Rate	Not available	Viscosity	> 20,5 mm <sup>2</sup> /s
Flammability of solids and gases	not applicable	Explosive properties	no data available
Lower inflammability limit	Not available	Oxidising properties	no data available
Upper inflammability limit	Not available		

### 9.2. Other information

VOC (Directive 2010/75/EC)	1,90 %
VOC (volatile carbon)	0

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## 10. Stability and reactivity

### 10.1. Reactivity

Reacts with water liberating small amounts of methanol.

### 10.2. Chemical stability

Material is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reaction if used as recommended. Under normal conditions of storage and use, hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Keep away from moisture.

### 10.5. Incompatible materials

Strong Acids, Strong Bases.

### 10.6. Hazardous decomposition products

Carbon oxides Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

## 11. Toxicological information

General information: Experience shows that our Silicone Elastomer products can be handled without risk to health if used properly and if the usual precautions for industrial hygiene are observed

### 11.1. Information on toxicological effects

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

Inhalation:

No data available.

Ingestion:

No data available.

Skin Contact:

No data available.

Eye contact:

No data 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

##### TITANIUM DIOXIDE

LD50 (Oral) 10000 mg/kg Rat

LD50 (Dermal) 10000 mg/kg

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#### Acute toxicity

Oral

Product: Not classified for acute toxicity based on available data.

#### Specified substance(s)

Dermal

Product: Not classified for acute toxicity based on available data.

#### Specified substance(s)

Inhalation

Product: Not classified for acute toxicity based on available data.

#### Specified substance(s)

Repeated dose toxicity

Product: No data available

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

Specified substance(s)

Skin Corrosion/Irritation:

Product: No data available

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

Specified substance(s) Serious Eye Damage/Eye Irritation:

Product: No data available.

#### RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Specified substance(s)

Respiratory or Skin Sensitization:

Product: No data available.

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Specified substance(s)

Germ Cell Mutagenicity

In vitro

Product: No data available

In vivo

Product: No data available

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

No data available.

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

No data available.

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Product: No data available.

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Product: No data available.

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

Product: highly unlikely. No data available.



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## 12. Ecological information

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

Use in accordance with the rules of good manufacturing technique, avoiding release into the environment (see also sections 6, 7, 13, 14 and 15). Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

There are not available eco-toxicological data on the mixture as a whole. Below the toxicological information are listed, relating to the main substances in the mixture.

### 12.1. Toxicity

TITANIUM DIOXIDE	
LC50 - for Fish	> 100 mg/l/96h Oncorhynchus mykiss - OECD 203
EC50 - for Crustacea	> 100 mg/l/48h Daphnia magna - OECD 202
EC50 - for Algae / Aquatic Plants	16 mg/l/72h Pseudokirchneriella subcapitata

### 12.2. Persistence and degradability

TITANIUM DIOXIDE	
Solubility in water	< 0,001 mg/l
Degradability: information not available	

Information not available on the mixture as a whole. Refer to substances listed above.

### 12.3. Bioaccumulative potential

Information not available on the mixture as a whole. Refer to substances listed above.

### 12.4. Mobility in soil

Information not available on the mixture as a whole. Refer to substances listed above.

### 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

Nessun dato disponibile.

## 13. Disposal considerations

General information:

The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground.

See Section 8 for information on appropriate personal protective equipment.

Disposal methods:

Can be incinerated when in compliance with local regulations.

### 13.1. Waste treatment methods

General information:

The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground.

See Section 8 for information on appropriate personal protective equipment.

Disposal methods:

Can be incinerated when in compliance with local regulations.

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## 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

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.

### 14.4. Packing group

Not applicable

### 14.5. Environmental hazards

Not applicable

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.

### 14.6. Special precautions for user

Not applicable

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

Information not relevant

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## 15. Regulatory information

### 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

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 authorization (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

Information not available

EU Regulations

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

Regulation (EC) No. 689/2008 Import and export of dangerous chemicals: none

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended: none

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use: none

Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.: none

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.: none

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances: none

EU. Regulation No.166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants: none

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work: none.

Inventory Status

Australia AICS:y (positive listing)Remarks: None.

Canada DSL Inventory List:n (Negative listing)Remarks: None.

EU EINECS List:y (positive listing)Remarks: None.

Japan (ENCS) List:y (positive listing)Remarks: None.

China Inventory of Existing

Chemical Substances:y (positive listing)Remarks: None.

Korea Existing Chemicals Inv. (KECI):n (Negative listing)Remarks: None.

Canada NDSL Inventory:n (Negative listing)Remarks: None.

Philippines PICCS:n (Negative listing)Remarks: None.

US TSCA Inventory:y (positive listing)Remarks: None.

New Zealand Inventory of Chemicals:n (Negative listing)Remarks: None.

Taiwan. Taiwan inventory (CSNN):n (Negative listing)Remarks: None.

### 15.2. Chemical safety assessment

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

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## 16. Other information

### 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).

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## GENERAL BIBLIOGRAPHY

1. Regulation (EC) 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
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)

- 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
- 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.