



VOLTECO Spa

BI FIX B Component

Revision n. 1.0

Revision date 05/03/2021

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

1.1 Product identifier

Name **BI FIX Component B**

1.2. Identified relevant uses of the substance or mixture and non-recommended uses

Description/Use **Bi-component injection system for chemical anchor on construction materials**

UFI **PE00-F0V9-U00F-YNXD**

1.3. Supplier information of the safety data sheet

Company Name **VOLTECO Spa**
Address **Via delle Industrie, 47**
District and Country **31050 Ponzano Veneto (TV) - IT**
Telephone **+39 0422 9663**
Fax **+39 0422 966401**
e-mail address of the person in charge of the safety data sheet **volteco@volteco.it**

1.4. Emergency telephone number

For urgent enquiries, please contact **+39 0422 9663**

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

The product is classified as dangerous pursuant to the provisions stipulated in EC Regulation No. 1272/2008 (CLP) as amended. The product requires a safety data sheet that complies with the provisions of EC Regulation No. 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 data sheet.

2.1.1 EC Regulation No. 1272/2008 as amended

Classification and hazard statements

2.2 Label elements

Hazard labelling pursuant to EC Regulation No. 1272/2008 (CLP) as amended.

Hazard pictograms



Warnings **Attention: Irritant - Hazardous for the environment**

Hazard statements

H319 **Causes serious eye irritation.**

H317 **May cause an allergic skin reaction.**

Precautionary tips

P101 **When seeking medical advice, provide the container or label of the product.**

P102 **Keep out of the reach of children.**

P280 **Wear protective gloves/clothing, protect eyes/face.**

P302+P352 **IN CASE OF SKIN CONTACT: wash with plenty of water and soap.**

P333+P313 **In case of irritation or a rash, seek medical attention.**

P501 **Dispose of the product/recipient in compliance with the regulation in force.**

Contains **Dibenzoyl peroxide**

2.3 Other hazards

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

SECTION 3. Composition/information on ingredients

3.1 Substance/Mixture



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| Name Hazardous component | CAS | EC | INDEX | % | Classification |
|--|---------|-----------|--------------|--------------|---|
| Dibenzoyl peroxide Reg. No 01-2119511472-50 | 94-36-0 | 202-327-6 | 617-008-00-0 | 11 <= C < 17 | Org. Perox B H241, Eye Irrit. 2 H319, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10 |

The full wording of the Hazard statements (H) is given in Section 16 of the data sheet.

Quartz (SiO₂) - CAS 14808-60-7 - C%: > = 50 - < 80:

The quartz contained in the product is classified as non-hazardous.

Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use.

The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

SECTION 4. First aid measures

4.1 Description of the first aid measures

Contact with skin

Take off contaminated clothing. Wash immediately with plenty of water. If irritation persists, seek medical attention. Wash contaminated clothing before reuse.

Contact with eyes

Take out any contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids well. Seek medical attention, if the problem persists.

Swallowing

Seek immediate medical attention. Induce vomiting only if indicated by the doctor. Never administer anything by mouth to an unconscious person unless authorised by the doctor.

Inhalation

Move the person to fresh air. If breathing is difficult, immediately call a doctor.

4.2 Main symptoms and effects, both acute and delayed

There is no specific information on the symptoms and effects of the product.

4.3 Indication of any immediate medical attention and special treatment needed

Information not available.

SECTION 5. Fire-fighting measures

5.1 Extinguishing agents

Suitable extinguishing agents

Conventional extinguishing agents must be used: carbon dioxide, foam, powder and nebulised water.

Unsuitable extinguishing agents

None known.

5.2 Risks from combustion

Hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN CASE OF FIRE

Avoid breathing combustion products.

5.3 Recommendations for those in charge of putting out fires

Special protective actions

Cool by spraying the containers with water to prevent product decomposition and the development of substances that are a potential health hazard. Always wear full fire prevention gear. Collect extinguishing water that must not be released in the drains. Dispose of contaminated water used for extinguishing and the remains of the fire according to applicable regulations.

Protective clothing

Standard fire fighting clothing such as an open-circuit compressed air breathing apparatus (EN 137), flame retardant clothing (EN 469), flame retardant gloves (EN 659) and boots for firefighters (HO A29 or A30).

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Stop the leak if it is safe to do so.

Wear suitable protective equipment (including the personal protective equipment listed in Section 8 of the Safety Data Sheet) to prevent skin, eye and personal clothing contamination.

These statements apply for workmen and emergency interventions.

6.2 Environmental precautions

Prevent the product from entering the drains, surface water, ground water and confined areas.

6.3 Methods and materials for containment and cleaning up

Vacuum the spilled product into a suitable container.

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Assess the compatibility of the container to be used with the product, by checking Section 10.

Absorb the remaining product with inert absorbent material.

Make sure there is adequate ventilation in the area affected by the leak.

Disposal of contaminated material must comply with the provisions stipulated in Point 13.

6.4 Reference to other sections

Refer to Chapter 8 for information on personal protective equipment.

Refer to Chapter 13 for information on disposal.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel.

Avoid contact with eyes and skin.

Do not breathe powders, vapours or mists.

Do not eat, drink or smoke during use.

Wash hands after use.

Do not release the product into the environment.

7.2 Conditions for safe storage, including any incompatibility

Store only in the closed original container.

Keep the recipients closed, in a well-ventilated area, away from direct sunlight.

Keep the containers away from any incompatible materials, checking Section 10.

Storage temperature: 5-30°C

Keeping the containers closed when not used.

Do not smoke while handling.

Keep far away from sources of heat, naked flames and sparks and other sources of ignition.

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressure and overheating in the event of fire in the vicinity.

7.3 Specific end uses

Information not available.

SECTION 8. Exposure control/personal protection

8.1 Control parameters

Standard references

TLV-ACGIH

ACGIH 2018

Threshold limit value

| Product name | Type | State | TWA/8h | - | STEL/15min | - |
|--------------|------|-------|-------------------|-----|-------------------|-----|
| | - | - | mg/m ³ | ppm | mg/m ³ | ppm |

Dibenzoyl peroxide TLV-ACGIH

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8.1 Control parameters

Predicted no effect concentration on the environment - PNEC

| Name of product/ingredient | Type | Environmental detail | Value | Method detail |
|----------------------------|------|-----------------------------|-----------------|---------------|
| <i>Dibenzoyl peroxide</i> | PNEC | Freshwater | 0.00002 mg/l | |
| | PNEC | Sea water | 0.000002 mg/l | |
| | PNEC | Sediments in freshwater | 0.0127 mg/kg/d | |
| | PNEC | Sediments in salt water | 0.00127 mg/kg/d | |
| | PNEC | Water, Intermittent release | 0.000602 mg/l | |
| | PNEC | STP microorganisms | 0.35 mg/l | |
| | PNEC | Terrestrial compartment | 0.0025 mg/kg/d | |

Health - Derived no effect level - DNEL/DMEL

| Name of product/ingredient | Type | Exposure level | Effects on health | Effects | Value | Population |
|----------------------------|-----------|----------------|-------------------|------------------|--------------|------------|
| <i>Dibenzoyl peroxide</i> | DNEL/DMEL | Oral | - | Chronic systemic | 2 mg/kg bw/d | Consumers |
| | DNEL/DMEL | Inhalation | - | Chronic systemic | - | Consumers |
| | DNEL/DMEL | Dermal | - | Chronic systemic | - | Consumers |

| | | | |
|--|-------------------------------|--|--------------------------|
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| Name of product/ingredient | Type | Exposure level | Effects on health | Effects | Value | Population |
|----------------------------|-----------|----------------|-------------------|------------------|----------------------|------------|
| | DNEL/DMEL | Oral | - | Chronic systemic | - | Workers |
| | DNEL/DMEL | Inhalation | - | Chronic systemic | 39 mg/m ³ | Workers |
| | DNEL/DMEL | Dermal | - | Chronic systemic | 13.3 mg/kg bw/d | Workers |

KEY:

(C) = CEILING; INALAB = Inhalable fraction; RESPIR = Respirable Fraction; TORAC = Thoracic Fraction
VND = identified danger but no available DNEL/PNEC; NEA = no expected exposure; NPI = no identified danger.

Quartz (SiO₂)

The quartz contained in the product is classified as non-hazardous.

Furthermore, being linked to the other liquid / pasty components of the mixture, it is not freely available during use.

The final product has a pasty consistency and the limits of exposure to inhalable dusts are not relevant.

8.2 Exposure controls

Since adequate technical equipment must always be given priority over personal protective equipment, make sure that there is good ventilation in the workplace by means of effective local extraction.

If necessary, request advice from your chemical supplier to select personal protective equipment.

The personal protective equipment must bear the CE marking attesting its compliance with the standards in force.

Set up emergency shower with face and eye tub.

Hand protection

Protect your hands with Category III work gloves (ref. Standard EN 374). The following must be considered for the final selection of the glove material: compatibility, degradation, break-through time and permeation. In the case of preparations, the resistance of the work gloves against chemical agents must be verified before use as it can be unpredictable. The gloves have a wear time limit that depends on duration and mode of use.

Eye protection

It is recommended to wear protective airtight goggles (ref. Standard EN 166). Do not wear contact lenses.

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 A 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.

Skin protection

Wear long-sleeved overalls and safety footwear for professional use category II (ref. Directive 89/686/EC and Standard EN 344). Wash with soap and water after removing protective clothing.

Environmental exposer control

The emissions from the production processes, including those from the ventilation equipment, must be controlled, in observance of environmental protection regulations. The product residues must not be discharged in an uncontrolled manner into the waste water or into watercourses.

SECTION 9. Physical and chemical properties

9.1 Information on the basic physical and chemical properties

| Description | Values |
|---------------------------|----------------|
| Physical state | Paste |
| Colour | Black |
| Odour | Characteristic |
| Olfactory threshold | Not available |
| pH | Not available |
| Melting or freezing point | Not available |
| Initial boiling point | Not available |
| Boiling range | Not available |
| Flash point | 150 °C |
| Evaporation rate | Not available |
| Upper flammability limit | Not available |
| Lower flammability limit | Not available |



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| Description | Values |
|---------------------------------------|----------------------|
| Upper explosivity limit | Not available |
| Solubility in water | Not soluble in water |
| Density | 1.50-1.70 kg/l |
| Relative density | Not available |
| Vapour density | Not available |
| Vapour pressure | Not available |
| Lower explosivity limit | Not available |
| Partition coefficient n-octanol/water | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | Not available |
| Oxidising properties | Not available |
| Explosive properties | Not available |

9.2 Other information

Active oxygen (%) < 1

SECTION 10. Stability and reactivity

10.1 Reactivity

Information not available.

10.2 Chemical stability

The product is stable if stored in original containers at temperatures lower than the self-accelerated decomposition temperature (SADT).
To avoid the exposure on the sunlight.

10.3 Possibility of hazardous reactions

Information not available.

10.4 Conditions to be avoided

Avoid over-heating.

Do not accumulate electrostatic charges.

Avoid any source of ignition.

Avoid transferring into containers that may have been contaminated with other substances.

Avoid storing close to inflammable or combustible products.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Thermal decomposition can lead to the formation of explosive peroxides or other potentially hazardous substances.

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

Immediate, delayed and chronic effects deriving from long and short term exposure

Information not available.

Interactive effects

Information not available.

Acute toxicity:

LC50 (Inhalation/Vapours) of the mixture: Not classified (no relevant component)

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

LD50 (Skin) of the mixture: Not classified (no relevant component)

Dibenzoyl peroxide

LD50 (Oral): > 2000 mg/kg Rat

LD50 (Skin): > 24,3 mg/kg Rat

Skin corrosion/Skin irritation

It does not meet the classification criteria for this hazard class.

Serious eye damage/eye irritation



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Causes serious eye irritation.

Respiratory or skin sensitisation

Sensitising for the skin

Germ cell mutagenicity

It does not meet the classification criteria for this hazard class.

Carcinogenicity

It does not meet the classification criteria for this hazard class.

Toxic for reproduction

It does not meet the classification criteria for this hazard class.

Specific toxicity for target organs (STOT) - Single exposure

It does not meet the classification criteria for this hazard class.

Specific toxicity for target organs (STOT) - Repeated exposure

It does not meet the classification criteria for this hazard class.

Risk if inhaled

It does not meet the classification criteria for this hazard class.

SECTION 12. Ecological information

12.1 Ecotoxicity

| | | |
|---------------------------|-----------------------------------|--|
| Dibenzoyl peroxide | LC50 - Fish | > 0.0602 mg/l/96h (OECD TG 203) |
| | EC50 - Crustacea | > 0.11 mg/l/48h (OECD TG 202) |
| | EC10 - Crustacea | > 0.001 mg/l/28d (OECD TG 211) |
| | EC50 - Algae - Aquatic plants | > 0.0711 mg/l/72h (OECD TG 201) |
| | NOEC Chronic Fish | > 0.0316 mg/l/96h |
| | NOEC Chronic Algae/Aquatic plants | > 0.02 mg/l/72h |
| Mixture/Product | EC50 - Algae - Aquatic plants | > 100 mg/l/72h algae - Pseudokirchneriella subcapitata (OECD TG 201 Acute and Chronic) |
| | EC50 - Crustacea | > 100 mg/l/48h Daphnia magna (OECD TG 202) |
| | LC50 - Fish | > 100 mg/l/96h fish (OECD TG 203) |
| | NOEC Chronic Fish | > 100 mg/l/28 d fish, Juvenile Growth Test (OECD TG 215) |

12.2 Persistence and degradability

Dibenzoyl peroxide

Rapidly degradable - 71% in water 28d (OECD TG 301 D)

12.3 Bioaccumulative potential

Dibenzoyl peroxide

Partition coefficient n-octanol/water - 3.2 Log Kow (OECD TG 117)

12.4 Mobility in the soil

Dibenzoyl peroxide

Soil/Water partition coefficient - 3,8 (OECD TG 121)

12.5 Results of the PBT and vPvB evaluation

Based on available data, the product does not contain PBT or vPvB substances in percentages exceeding 0.1%.

12.6 Other adverse effects

Information not available.

SECTION 13. Disposal considerations

13.1 Waste processing methods

Non-hardened material

The generation of waste should be avoided or minimised wherever possible.

Empty containers or liners may retain some product residue.

Dispose of the product and container with proper precaution.

Dispose of surplus and non-recyclable products via an authorised waste disposal contractor.

Disposal of this product and any by-products must always comply with the provisions of law concerning environmental protection and waste disposal and the requirements of any relative local authority.

Prevent the spilled material from dispersing, flowing into or coming in contact with the soil, waterways, drains and sewers.

European Waste Code: 08 04 09*



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GLUE AND SEALING MATERIALS WASTE CONTAINING ORGANIC SOLVENTS OR OTHER DANGEROUS SUBSTANCES

Hardened material

Once hardened, the product becomes a special non-dangerous waste.

European Waste Code: 08 04 10

GLUE AND SEALING MATERIALS WASTE OR OTHER DANGEROUS SUBSTANCES, OTHER THAN CLASSIFIED UNDER 08 04 09.

Unclean packaging

Empty cartridges that do not contain any traces of the product can be recycled.

Empty cartridges containing traces of product must be disposed of as special waste.

European Waste Code: 15 01 10*

PACKAGING CONTAINING RESIDUES OF OR CONTAMINATED BY DANGEROUS SUBSTANCES

13.1 Waste processing methods

Reuse, when possible. Product residues should be considered special hazardous waste.

The hazard level of waste containing this product must be evaluated according to applicable regulations.

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

13.2 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 classified as dangerous in accordance with the provisions in force concerning transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

| - | ADR/RID - ADN/RID | IMDG | IATA |
|--|-------------------|-----------------|-----------------|
| 14.1 UN number | Not applicable. | Not applicable. | Not applicable. |
| 14.2 UN Shipping name | Not applicable. | Not applicable. | Not applicable. |
| 14.3 Hazard classes | Not applicable. | Not applicable. | Not applicable. |
| n. hazard | Not applicable. | Not applicable. | Not applicable. |
| 14.4 Packaging groups | Not applicable. | Not applicable. | Not applicable. |
| 14.5 Hazardous for the environment | Not applicable. | Not applicable. | Not applicable. |
| 14.6 Special precautions | Not applicable. | Not applicable. | Not applicable. |
| Further information | Not applicable. | Not applicable. | Not applicable. |
| 14.7 Bulk transport according to Annex II of MARPOL 73/78 and the IBC Code | Not relevant | Not relevant | Not relevant |

SECTION 15. Regulatory information

15.1 Specific standards and regulations on health, safety and environment for the substance or mixture

Seveso category - Directive 2012/18/EC

None

Restrictions relating to the product or substances contained in Annex XVII Regulation EC No. 1907/2006

Product Point 3

Substances in Candidate List (Art. 59 Reach)

Based on available data, the product does not contain SVHC substances in percentages exceeding 0.1%.

Substances subject to authorisation Annex XIV Regulation EC No. 1907/2006 (REACH)

None

Substances subject to export notification Regulation EC No. 649/2012

None

Substances subject to the Rotterdam Convention

None

Substances subject to the Stockholm Convention

None

Health controls

Workers exposed to this chemical, which is a health hazard, must undergo health checks for the health monitoring carried out in accordance with the provisions of Art. 41 of Legislative Decree 09/04/2008 No. 81 unless the hazard posed to the health and safety of the worker has been assessed as irrelevant, in accordance with Art. 224 Paragraph 2.

15.2 Chemical safety assessment

No chemical safety assessment has been conducted for the mixture and the substances contained in it.



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SECTION 16. Other information

Text of hazard (H) phrases mentioned in Sections 2-3 of the data sheet:

| | |
|--------------------------|---|
| Org. Perox B | Organic peroxide, Category B |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation - Category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute toxicity, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment - Chronic toxicity, Category 1 |
| H241 | Risk of fire or explosion on heating |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H400 | Very toxic to aquatic organisms |
| H410 | Very toxic to aquatic life with long-term effects |

GENERAL BIBLIOGRAPHY:

- EC Regulation No. 1907/2006 of the European Parliament (REACH)
- EC Regulation No. 1272/2008 of the European Parliament (CLP)
- EU Regulation No. 790/2009 of the European Parliament (I Atp. CLP)
- EU Regulation No. 2015/830 of the European Parliament
- EU Regulation No. 286/2011 of the European Parliament (II Atp. CLP)
- EU Regulation No. 618/2012 of the European Parliament (III Atp. CLP)
- EU Regulation No. 487/2013 of the European Parliament (IV Atp. CLP)
- EU Regulation No. 944/2013 of the European Parliament (V Atp. CLP)
- EU Regulation No. 605/2014 of the European Parliament (VI Atp. CLP)
- EU Regulation No. 2015/1221 of the European Parliament (VII Atp. CLP)
- EU Regulation No. 2016/918 of the European Parliament (VIII Atp. CLP)
- EU Regulation No. 2016/1179 (IX Atp. CLP)
- EU Regulation No. 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989
- ECHA Agency website
- Database of SDS models of chemical substances - Ministry of Health and National Institute of Health

Abbreviations and acronyms

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS NUMBER: Chemical Abstract Service NUMBER
- CLP: Classification, Labelling, Packaging (EC Regulation No. 1272/2008)
- DNEL: Derived no effect level
- EINECS: European Inventory of existing Commercial Chemical substances
- GefStoffVO: Ordinance on hazardous substances in Germany
- GHS: Global harmonised system to classify and label Chemical products
- IATA: International Air transport Association
- IATA DGR: Regulations to transport Dangerous Goods of the International Air transport Association
- ICAO: International Civil Aviation Organization
- ICAO-TI: Technical Instructions of the "International Civil Aviation Organization"
- IMDG: International maritime code for transport of Dangerous Goods
- LC50: Lethal concentration for 50% of the test population
- LD50: Lethal dose for 50% of the test population
- LTE: Long-term exposure
- PNEC: Predicted no-effect concentration
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- STE: Short-time exposure
- STEL: Short-time exposure limit
- STOT: specific organ Toxicity
- TLV: occupational exposure threshold limit value
- TWA: 8-hour time-weighted average exposure limit
- OEL: EU occupational exposure limit value



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- VLE: occupational exposure limit value
- WGK: water hazard class in Germany
- N.A.: Not applicable.
- N.D.: Not available

Notes for the user

The information contained in this data sheet is based on the knowledge available to us at the date of the last version.

The user must verify the suitability and completeness of the information according to each specific use of the product.

This document must not be considered a guarantee of any specific property of the product.

Since product use is not subject to our direct control, the user is obliged, under his own responsibility, to comply with the health and safety regulations and laws in force. We accept no responsibility for improper use.

We accept no responsibility for improper use.

Provide adequate training to people in charge of using chemical products.