PLTI1 - Titanium ICP in 2% Nitric Acid, 1% Hydrofluoric Acid

Revision nr. 1

Dated 22/7/2015

Printed on 7/23/2015

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Safety data sheet according to U.S.A. Federal Hazcom 2012

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

1.1. Product identifier

Code: PLTI1

Product name Titanium ICP in 2% Nitric Acid, 1% Hydrofluoric Acid

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

For Laboratory Use Only. Intended use

1.3. Details of the supplier of the safety data sheet

EXAXOL CHEMICAL CORPORATION Name Full address

14325 60 TH ST N

33760 CLEARWATER - FLORIDA District and Country

US

Tel. 1-727-524-7732 Fax 1-727-532-8221

e-mail address

info@exaxol.com

1.4. Emergency telephone number

1-800-255-3924 For urgent inquiries refer to ChemTel Inc.

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 OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). The product thus requires a safety datasheet.

> Suspected of causing cancer. Toxic in contact with skin.

Harmful if swallowed. Causes serious eye damage.

Causes skin irritation.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Classification and Hazard Statement.

Carcinogenicity, category 2 Acute toxicity, category 3 Acute toxicity, category 4 Serious eye damage, category 1 Skin irritation, category 2







Signal words:

Danger

Hazard statements:

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H351 Suspected of causing cancer.
H311 Toxic in contact with skin.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H315 Causes skin irritation.

Precautionary statements:

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves / protective clothing / eye protection / face protection.

Response:

P301+P312 IF SWALLOWED: call a POISON CENTER / doctor if you feel unwell.

P302+P352 IF ON SKIN: wash with plenty of water.

P305+P351+P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P310 Immediately call a POISON CENTER / doctor.

P321 Specific treatment (see label).

P330 Rinse mouth.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P362+P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents / container to an approved waste disposal plant.

2.2. Other hazards.

The product is not classified as hazardous for environment pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

| Identification. | Conc. %. | Classification: |
|---|----------|---|
| WATER | | |
| CAS. 7732-18-5 | 50 - 100 | |
| NITRIC ACID | | |
| CAS. 7697-37-2 | 1 - 3 | Oxidising liquid, category 3 H272, Skin corrosion, category 1A H314 |
| Hydrofluoric Acid | | , |
| CAS. 7664-39-3 | 1 - 3 | Acute toxicity, category 1 H310, Acute toxicity, category 2 H300, Acute toxicity, category 2 H330, Skin corrosion, category 1A H314 |
| TITANIUM DIOXIDE (59.9% - metallic element) | | , 3, |
| CAS. 13463-67-7 | 0.5 - 1 | |

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Note: Upper limit is not included into the range.

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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

4.2. Most important symptoms and effects, both acute and delayed.

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

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

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).

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SECTION 6. Accidental release measures.

6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

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 into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. 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.

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. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. 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.

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Regulatory References:

USA NIOSH-REL NIOSH publication No. 2005-149, 3th printing, 2007.

USA OSHA-PEL Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-

1910.1000.

USA CAL/OSHA-PEL California Division of Occupational Safety and Health (Cal-OSHA)

Permissible Exposure Limits (PELs).

EU OEL EU Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC;

Directive 2000/39/EC.

TLV-ACGIH ACGIH 2014

| NITRIC ACID | | | | | |
|-----------------------------|---------|--------|-----|------------|-----|
| Threshold Limit Value. Type | Country | TWA/8h | | STEL/15min | ı |
| Турс | Country | mg/m3 | nnm | | |
| | | mg/ms | ppm | mg/m3 | ppm |
| TLV-ACGIH | - | 5.2 | 2 | 10.3 | 4 |
| OEL | EU | | | 2.6 | 1 |
| OSHA | USA | 5 | 2 | | |
| CAL/OSHA | USA | 5 | 2 | 10 | 4 |
| NIOSH | LISA | 5 | 2 | 10 | 4 |

| Hydrofluoric Acid | | | | | | |
|------------------------|---------|--------|-----|------------|-------|-------|
| Threshold Limit Value. | | | | | | |
| Туре | Country | TWA/8h | | STEL/15min | | |
| | | mg/m3 | ppm | mg/m3 | ppm | |
| OSHA | USA | | 3 | | | |
| CAL/OSHA | USA | 0.33 | 0.4 | 0.83 | 1 | SKIN. |
| NIOSH | USA | 2.5 | 3 | 5 (C) | 6 (C) | |

| TITANIUM DIOXIDE Threshold Limit Value. Type | Country | TWA/8h | | STEL/15min | | | |
|--|---------|--------|-----|------------|-----|--------|--|
| | | mg/m3 | ppm | mg/m3 | ppm | | |
| TLV-ACGIH | - | 10 | | | | | |
| OSHA | USA | 15 | | | | INHAL. | |
| CAL/OSHA | USA | 10 | | | | INHAL. | |
| CAL/OSHA | USA | 5 | | | | RESP. | |

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must comply with current regulations.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

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SKIN PROTECTION

Wear category III 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 (OSHA 29 CFR 1910.133).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose class must be chosen according to the limit of use concentration (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134). 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 or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84 and OSHA 29 CFR 1910.134.

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 Not available. Not available. Colour Odour Not available. Odour threshold. Not available. рН. Not available. Melting point / freezing point. Not available. Initial boiling point. Not available. Boiling range. Not available. > 93 °C. Flash point. **Evaporation Rate** Not available. Flammability of solids and gases Not available. Lower inflammability limit. Not available. Upper inflammability limit. Not available. Lower explosive limit. Not available. Upper explosive limit. Not available. Vapour pressure. Not available. Vapour density Not available. Relative density. 1.010 Kg/l Solubility Not available. Partition coefficient: n-octanol/water Not available. Auto-ignition temperature. Not available. Decomposition temperature. Not available. Viscosity Not available Explosive properties Not available. Oxidising properties Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

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10.1. Reactivity.

NITRIC ACID: decomposes at 84°C with possibility of self-ignition.

10.2. Chemical stability.

Information not available.

10.3. Possibility of hazardous reactions.

The product may react violently with water.

10.4. Conditions to avoid.

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

NITRIC ACID: exposure to heat and light.

10.5. Incompatible materials.

NITRIC ACID: flammable substances, reducing substances, alcohol, basic substances and metals; acetone, acetic acid, acetic anhydride and certain plastics.

10.6. Hazardous decomposition products.

NITRIC ACID: nitric oxides.

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.

This product must be handled carefully because of its possible carcinogenic effects. Anyway, currently available data do not allow us to comprehensively assess this product.

Acute effects: this product is toxic and causes poisoning by cutaneous absorption.

Poisoning by cutaneous absorption may give rise to a series of symptoms, which may include: increase of skin temperature, swelling, itchiness, headache, respiratory disorders and sometimes even burns and cauterizations. Inhalation of this product may irritate mucosas, the upper respiratory trait, eyes, and skin.

Acute effects: ingestion of this product is harmful. Even small amounts of product may cause serious health problems (stomach pain, nausea, sickness, diarrhoea).

This product may cause serious ocular lesions, cornea opacity, iris lesions, irreversible eye coloration.

Acute effects: contact with skin may cause: irritation, erythema, edema, dryness and chapped skin.

Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

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NITRIC ACID

LC50 (Inhalation).67 ppm/4h Rat

TITANIUM DIOXIDE

LD50 (Oral).> 10000 mg/kg Rat

Carcinogenicity Assessment: 13463-67-7TITANIUM DIOXIDE

ACGIH:: A4 IARC:2B

SECTION 12. Ecological information.

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

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

NITRIC ACID

Solubility in water. > 1000000 mg/l

Biodegradability: Information not available.

12.3. Bioaccumulative potential.

NITRIC ACID

Partition coefficient: n-

octanol/water.

< 3

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

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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.

ce or mixture.

| SECTION 14. Transport information. | |
|--|--|
| SECTION 15. Regulatory information | ո. |
| 15.1. Safety, health and environmental regulations | s/legislation specific for the substan |
| U.S. Federal Regulations. | |
| TSCA: | |
| All components are listed on TSCA Inventory. | |
| Clean Air Act Section 112(b): | |
| 7664-39-3 | Hydrofluoric Acid |
| Clean Air Act Section 602 Class I Substances: | |
| No component(s) listed. | |
| Clean Air Act Section 602 Class II Substances: | |
| No component(s) listed. | |
| Clean Water Act – Priority Pollutants: | |
| No component(s) listed. | |
| Clean Water Act – Toxic Pollutants: | |
| No component(s) listed. | |
| DEA List I Chemicals (Precursor Chemicals): | |
| No component(s) listed. | |
| DEA List II Chemicals (Essential Chemicals): | |
| No component(s) listed. | |
| EPA List of Lists: | |
| 313 Category Code: | |
| 7664-39-3 7697-37-2 | Hydrofluoric Acid |

NITRIC ACID

EPCRA 302 EHS TPQ:

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7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

EPCRA 304 EHS RQ:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

CERCLA RQ:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

EPCRA 313 TRI:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

RCRA Code:

7664-39-3 Hydrofluoric Acid

CAA 112 (r) RMP TQ:

No component(s) listed.

State Regulations.

Massachussetts:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

13463-67-7 TITANIUM DIOXIDE (Titanium dioxide (airborne, unbound particles

of respirable size))

Minnesota:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

13463-67-7 TITANIUM DIOXIDE (Titanium

dioxide (airborne, unbound particles

of respirable size))

New Jersey:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

13463-67-7 TITANIUM DIOXIDE (Titanium

dioxide (airborne, unbound particles

of respirable size))

New York:

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

Pennsylvania:

7664-39-3 Hydrofluoric Acid

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TITANIUM DIOXIDE (Titanium 13463-67-7

dioxide (airborne, unbound particles

of respirable size))

NITRIC ACID

California:

7697-37-2

7664-39-3 Hydrofluoric Acid 7697-37-2 NITRIC ACID

Proposition 65:

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

13463-67-7 TITANIUM DIOXIDE C (Titanium dioxide (airborne, unbound particles

of respirable size))

International Regulations.

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.

Candadian WHMIS.

Ox. Liq. 3

Information not available.

SECTION 16. Other information.

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

Oxidising liquid, category 3 Carc. 2 Carcinogenicity, category 2 Acute Tox. 1 Acute toxicity, category 1 Acute Tox. 2 Acute toxicity, category 2 Acute Tox. 3 Acute toxicity, category 3 Acute Tox. 4 Acute toxicity, category 4 Skin Corr. 1A Skin corrosion, category 1A Skin Corr. 1B Skin corrosion, category 1B Skin Corr. 1C Skin corrosion, category 1C Eye Dam. 1 Serious eye damage, category 1 Eye Irrit. 2 Eye irritation, category 2 Skin Irrit. 2 Skin irritation, category 2 H272 May intensify fire; oxidiser.

H351 Suspected of causing cancer. H310 Fatal in contact with skin.

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H300 Fatal if swallowed. H330 Fatal if inhaled.

H311 Toxic in contact with skin. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H315 Causes skin irritation.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: EC Regulation 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- 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
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- RCRA Code: Resource Conservation and Recovery Act Code
- REL: Recommended exposure limit
- 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.
- TSCA: Toxic Substances Control Act
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 3
- The Merck Index. 10th Edition
- Handling Chemical Safety
 Niosh Registry of Toxic Effects of Chemical Substances
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- 6 NYCRR part 597
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.

| EXAXOL | CHEMIC | AL CC | | ΜΟΙΤΑ 9 |
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- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

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.