

Pursuant to Regulation (EC) No. 1907/2006 as amended by Regulation (EC) No. 2015/830 and Regulation (EC) No. 1272/2008

Safety Data Sheet

Compliant with Annex II of REACH - Regulation (EU) 2020/878

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/ENTERPRISE

1.1. Product identifier.

Product type: Blend
Trade name: **NATIS Paste**
Product code: NP01

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

Thermal protection of buildings, for interior and exterior (concrete, brick, plastered surfaces).

1.2.1. Use descriptors for identified uses.

Use in industrial and civil sites.

1.2.2. Contraindicated uses

Uses other than the above indications are contraindicated.

1.3. Information about the supplier of the safety data sheet

Manufacturer and responsible person TTK NANOTECH LTD, 111, Power Road, Pc 211, London, England, W4 5PY
For this safety data sheet: **Simon Hersch**
Correspondence address: 111, Power Road, Pc 211, London, England, W4 5PY
Country/State of Residence: England

1.4. Emergency telephone number

For urgent information please contact:

Hospital / Address / Telephone

CAV "Children's Hospital Baby Jesus"

Dept. of Emergency and Acceptance DEA / Piazza Sant'Onofrio, 4 - Rome / 06 68593726

Az. Osp. Univ. Foggia / V.le Luigi Pinto, 1 - Foggia / 800183459

Az. Osp. "A. Cardarelli" / Via A. Cardarelli, 9 - Naples / 081-5453333

CAV Policlinico "Umberto I" / V.le del Policlinico, 155 - Rome / 06-49978000

CAV Policlinico "A. Gemelli" / Largo Agostino Gemelli, 8 - Rome / 06-3054343

Az. Osp. "Careggi" U.O. Medical Toxicology / Largo Brambilla, 3 - Florence / 055-7947819

CAV National Center for Toxicological Information / Via Salvatore Maugeri, 10 - Pavia / 0382-24444 Niguarda Ca' Granda Hospital / Piazza Ospedale Maggiore, 3 - Milan / 02-66101029

Pope John XXII Hospital Company / WHO Square, 1 - Bergamo / 800883300

Azienda Ospedaliera Integrata Verona / Piazzale Aristide Stefani, 1 - Verona / 800011858

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:

According to the manufacturer and relevant regulations, the product does not constitute a hazardous mixture.

2.2. Label elements.

Labeling in accordance with Regulation (EC) No. 1272/2008:

The mixture is not hazardous according to Regulation (EC) No. 1272/2008.

Danger pictograms: not required.
Caution notices: not required.
Warnings: not necessary.
Cautionary advice: not necessary.

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2.3. Other hazards

The preparation does not meet the criteria for vPvB substances according to Annex XIII of Regulation (EC) No 1907/2006.

SECTION 3. Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical identity of the substance according to Regulation (EC) No. 1272/2008:

| Hazardous substance REACH registration number | N. CAS | CE N. | Weight % | Classification |
|---|------------|-----------|------------|---|
| Reaction mass of: 5-chloro-2- methyl-4- isothiazolin-3-one [EC No 247-500-7] and 2- methyl-2H -isothiazol-3-one [EC No 220- 239-6] (3:1) ⁽¹⁾ - | 55965-84-9 | - | < 0,00028% | Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Titanium dioxide | 13463-67-7 | 236-675-5 | < 1,0 % | Carc. 2, H351 |

⁽¹⁾ Substance with a specific concentration range: Skin Corr. 1B, H314: $C \geq 0.6\%$; Skin Irrit. 2, H315: $0.06\% \leq C < 0.6\%$; Eye Irrit. 2, H319: $0.06\% \leq C < 0.6\%$; Skin Sens. 1, H317: $C \geq 0.0015\%$. The additional hazardous substance does not exceed the labelled quantity.

The full text of the hazard statements (H) can be found in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| Instructions in case of inhalation: | Move the subject to fresh air and keep him or her at rest in a position conducive to breathing. In case of discomfort, consult a doctor. |
| Instructions in case of skin contact: | Wash skin with water/shower. Remove all contaminated clothing immediately. Wash contaminated clothing before re-use. In case of skin irritation, contact a doctor.. |
| Instructions in case of eye contact: | For several minutes, rinse gently with water. Protect the uninjured eye. Remove any contact lenses if it is convenient to do so. Continue rinsing. In case of eye irritation, contact a doctor. |
| Instructions in case of ingestion: | Rinse the subject's mouth with water and make the subject drink plenty of water. If the subject is unconscious, give artificial respiration. Do not induce vomiting. In case of malaise, seek medical attention. |

4.2. Main symptoms and effects, both acute and delayed

| | |
|---------------|--|
| Inhalation: | May cause irritation of the respiratory tract, resulting in a cough or sore throat. |
| Skin contact: | Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC No. 220- 239-6] (3:1). May cause allergic reaction. |
| Eye contact: | May cause redness, itching. |
| Ingestion: | May cause nausea, vomiting. |

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

Apply symptomatic treatment. Show the doctor the product label or safety data sheet.

SECTION 5: FIRE-FIGHTING MEASURES**5.1. Extinguishing media.**

Suitable extinguishing media:

Water fog/spray, powder, carbon dioxide, foam.

Unsuitable extinguishing media:

Water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard:

Non-flammable.

Explosion hazards:

The mixture is not explosive.

Reactivity:

The mixture is stable under normal conditions.

Hazardous decomposition products:

No hazardous decomposition products are known.

5.3. Instructions for firefightersPersonal protective equipment
for fire brigade:

Use a standard fire extinguisher (MSZ EN 469). Wear a protective device for closed systems (SCBA, EN 133).

Other information:

Cool containers exposed to high temperatures with a water jet;
if possible, remove them from the area exposed to heat.**SECTION 6: MEASURES IN CASE OF ACCIDENTAL RELEASE****6.1. Personal precautions, protective equipment and procedures in case of emergency**

For non-emergency personnel:

Use protective equipment according to the instructions in Section 8. Ensure adequate ventilation. Avoid contact with clothing and eyes.

Avoid inhalation of mists, vapors, sprays. Use only in properly ventilated areas.

Avoid entrances to the drain.

Remove contaminated clothing and rinse it before reusing it. Provide laundry services in the workplace.

For emergency personnel:

During rescue operations, use mixture-resistant protective clothing, respirator, protective gloves and eye protection according to Section 8. If exposure or illness is suspected, seek medical attention.

6.2. Environmental precautions

Other observations:

Avoid release to the environment. Avoid seepage into soil, groundwater and waterways. In case of potential or actual risk to the environment, refer to Section 6.1.

6.3. Methods and materials for containment and remediation

Localization:

Use a removal tray for large amounts of waste. To absorb spilled mixture, use dry sand or emergency absorbent material.

Reclamation:

Collect the applied absorbed material, then dispose of it in a tightly closed container. Impurities contaminated by the mixture should be considered with the same degree of hazard as the mixture. Wash contaminated surfaces with plenty of water.

Other information:

No other relevant information available

6.4. References to other sections

See Section 7 for information on safe handling.

For personal protective equipment, see Section 8.

For information on disposal, see Section 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for handling

Handling Precautions:

Observe general occupational health safety precautions when using this mixture.
Work in a sufficiently ventilated room.
Use appropriate personal protective equipment.
Do not eat, drink or smoke while using this mixture.
Avoid contact with skin and eyes.
At the workplace, mark hazards from the mixture with signs in accordance with Directive 1992/58/EEC.
Do not inhale.

Fire and explosion protection:

The mixture is not flammable. The mixture is not explosive.

7.2. Conditions for safe storage, including any incompatibilities

Storage requirements:

A chemical-resistant floor is required.
Store in tightly closed containers, in the original packaging. Store in a cool, dry, locked place. Store in an upright position. Keep out from the reach of children. Do not expose the product to direct sunlight. Store in the packaging provided by the manufacturer. Use the mixture- resistant package if necessary.

Storage temperature:

Store at temperatures between +5 and +40°C. Avoid frost, heat, direct sunlight.

They cannot be stored together:

Keep away from food, drink and feed.

Packaging materials:

-

Insufficient packaging material:

No incompatible packaging is known.

Information on storage conditions:

Avoid humid environments. Avoid dropping or damaging the container.

7.3. Special end uses

End uses:

As described in Section 1.2.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. 8.1. Control parameters.

The product does not contain any material subject to labeling with a workplace exposure limit value.

8.2. Exposure controls

Recommended monitoring procedures

Exercise caution when handling the product. In accordance with 25/2000. (IX. 30.)
The employer is required to reduce the level of exposure to the lowest possible level based on scientific and technical standards for the unrestricted hazardous substance; to a level, where the hazardous substance, based on current knowledge, has no harmful effects on health.

If necessary, apply artificial ventilation to ensure adequate ventilation.

Personal precautions, protective equipment

Do not use before reading and understanding all safety precautions;
Wash hands thoroughly at the beginning of breaks after work. Do not eat while working. Do not smoke. Avoid contact with eyes and skin. Do not ingest. Do not inhale the spray. Remove contaminated clothing.

Protective clothing:

See below, materials that meet relevant standards.

Hand protection:

Wear chemical-resistant gloves (EN 374). Selection of glove material in consideration of breakthrough times, diffusion rates and degradation.

Eye/face protection:

Wear properly sealed safety glasses (EN 166).

Skin protection:

Work clothes, safety shoes. Wash the affected portion of the skin immediately after contact. Wear protective helmet during loading operations.

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| Respiratory protection: | Not intended for normal use and where adequate ventilation is provided. If adequate ventilation cannot be provided and there is a potential risk of inhalation of product-derived vapor, wear an EN 140, Type A gas mask or equivalent with an organic vapor filter. (Filter capacity is determined by estimated exposure.) |
| Respiratory protection is only intended to safeguard against the residual risk of short-term activities following the adoption of practically feasible measures (e.g., on-site air extraction) to minimize the risk at the point of danger. Observe the manufacturer's instructions for the use and maintenance of respirators. | |
| Thermal hazards: | In the case of specific uses of the mixture, this effect may not occur. |
| Environmental exposure controls: | During application, if necessary, recover residual pollutants in the atmosphere and wastes in technological discharges. Material handling, transportation and transshipment must also take into account the possibility of an accident. Therefore select the storage conditions and loading of the mixture accordingly. |
| User exposure limit: | The user exposure limit is ensured by the specification of user descriptors and related occupational safety requirements defined by the REACH regulation. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|--|-------------------------------|
| Physical state: | Dense dispersion. |
| Color: | White. |
| Odor: | Faint, characteristic. |
| Odor threshold: | No data available. |
| pH value (20°C): | 9,0. |
| Melting/freezing point:: | 0°C (water). |
| Boiling point: | 100°C (water). |
| Flash point: | No data available. |
| Evaporation rate: | No data available. |
| Flammability: | Not applicable. |
| Explosion limits (v/v %): | No data available. |
| Vapor pressure (20°C): | No data available. |
| Vapor density: | No data available. |
| Density (20°C): | 0,8 g/cm ³ |
| Solubility in water: | Miscible with unlimited water |
| Partition coefficient n-octanol/water: | Not applicable. |
| Decomposition temperature: | No data available. |
| Auto-ignition temperature: | No data available. |
| Dynamic viscosity (23°C): | No data available. |
| Danger of explosion: | The mixture is not explosive. |
| Oxidizing properties: | No data available. |

9.2. Other information

| | |
|--------------|---|
| VOC content: | This product contains a maximum of 10 g/l VOC |
|--------------|---|

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SECTION 10: STABILITY AND RESPONSIVENESS

10.1. Reactivity

Reactivity: Stable under recommended storage and transport conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No hazardous reactions are expected.

10.4. Conditions to avoid

Conditions to avoid: Avoid direct sunlight and high temperatures.

10.5. Incompatible materials

Incompatible materials: Do not store together with food, drink or feed.

10.6. Hazardous decomposition products

Decomposition products: No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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|---|--|
| Acute toxicity: | No known acute toxicity. Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation: | No known effects of skin corrosion/irritation. Based on available data, the classification criteria are not met. |
| Severe eye injury/severe eye irritation: | No known ocular injury. Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitization: | Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC No. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC No. 220-239-6] (3:1). May cause an allergic reaction. |
| Mutagenicity on germ cells: | No known mutagenic effects. Based on the available data, the classification criteria are not met. |
| Carcinogenicity: | No known carcinogenic effects. Based on the available data, the classification criteria are not met. |
| Reproductive toxicity: | No known effects on reproduction. Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (single exposure): | No specific target organ effects are known following a single exposure Based on available data, the classification criteria are not met. |
| Specific target organ toxicity (repeated exposure): | No specific target organ effects are known following exposure. Based on the available data, the classification criteria are not met. |
| Aspiration hazard: | No known aspiration hazard. Based on classification criteria are not met. |
| Chronic toxicity: | The mixture is not classified. |

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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

The mixture is not classified.

12.2. Persistence and degradability

The mixture is not classified.

12.3. Bioaccumulation potential

The mixture is not classified.

12.4. Mobility in soil.

Do not place in soil, groundwater or sewage.

12.5. Results of PBT and vPvB assessment.

This mixture does not constitute a PBT or vPvB preparation under the REACH Regulation.

12.6. Other adverse effects

Prevent the product from seeping directly into surface water, sewage system or groundwater.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendations for waste management:

The chemical hazard of the mixture envelope should be evaluated based on the material safety data sheet. Store the empty wrapper tightly closed. The waste-transformed mixture will be stored in the original packaging. Do not deliver it together with municipal waste. Prevent the product from seeping into surface water, sewage system or groundwater.

SECTION 14: TRANSPORTATION INFORMATION

14.1. UN number

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

14.2. UN shipping name

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

14.3. Transport-related hazard class.

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

14.4. Packaging group

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

14.5. Environmental risk

No known environmental risks.

14.6. Special precautions for users

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

14.7. Transport of bulk cargo according to Annex II of MARPOL 73/78 and the IBC Code.

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

14.8. Description of the shipment on the transport documents

The product is not to be considered hazardous under the current regulations on the transportation of dangerous goods.

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SEZIONE 15. Informazioni sulla regolamentazione

15.1. Health, safety and environmental regulations and legislation specific to the substance or mixture

Directive 2012/18/EU:

Not applicable.

EU Regulations:

No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Regulation (EEC) No. 793/93, /94/EC, Council Directive 76/769/EEC, 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC repealing this Directive;

Regulation (EU) No. 453/2010 amending Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH);

Regulation (EU) No. 2015/830 amending Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No. 1907/2006;

Regulation (EC) No. 67/548/EEC (DSD) on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labeling of dangerous substances;

Directive 1999/13/EC (VOC Directive) on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations;

Directive 1999/45/EC (DPD) on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations;

Directive 92/58/EEC on the minimum requirements for safety and/or health signs at work (ninth individual directive within the meaning of Article 16(1) of Directive 89/391/EEC).

15.2. Chemical safety assessment

The downstream user did not conduct a chemical safety assessment for this mixture.

SECTION 16: OTHER INFORMATION

Abbreviations and Acronyms:

| | |
|---------------|--|
| CAS | Chemical Abstracts Service |
| DNEL DMEL DSD | Derived no-effect level. |
| EC50 | Derived minimum effect level. |
| EC Code | COUNCIL DIRECTIVE of June 27, 1967 on the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous substances. (67/548/EEC). |
| EC50 | The actual concentration of the substance such that 50% of the maximal reaction response is produced. |
| EC Code. | European Community Code. |
| EINECS | European Inventory of Existing Commercial Chemical Substances [European Inventory of Existing Commercial Chemical Substances]. |
| ELINCS | European List of Notified Chemical Substances. |
| ErC50 | EC50 growth value. |
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals. |

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| | |
|-------|---|
| LC50 | The value (Mean Lethal Concentration) is the concentration of mist/nebulization or dust that can cause the death of half of the test organisms if inhaled continuously for a given period of time. The result is given per unit volume of air in mg/m ³ or ppm. |
| LD50 | Value (average lethal dose) is the single statically calculated dose of the substance in the specified exposure that is expected to cause death in 50 percent of the reference organisms during a defined time interval. The LD50 is expressed as the ratio of the administered amount of the test substance to the body weight of the test organism (mg/kg). |
| NOAEL | No Observed Adverse Effect Level [dose with no observable adverse effect]. |
| NOEC | No Observed Effect Concentration [NOEC]. |
| NOEL | No Observed Effect Level [No observed effect level]. |
| NOEL | No Observed Effect Loading Rate [No Observed Effect Loading Rate]. |
| PAV | Permissible Average Concentration: the average concentration of air pollutant in the workplace for a shift, normally without harmful effects on worker health. If the elapsed exposure time is less than the reference time, the air pollution cannot exceed the PAV value. |
| PBT | Persistent, bioaccumulative and toxic. |
| PPC | Peak allowable concentration (maximum allowable air pollution for a short period of time): the maximum allowable concentration of air pollutants within a range above the PAV value. POW Partition coefficient n-octanol/water. |
| REACH | Registration, evaluation, authorization and restriction of chemicals. |
| STEL | Short-term exposure limit (15 minutes). |
| TWA | Time Weighted Average [Time Weighted Average]. VOC Volatile organic compound. |
| vPv | Very persistent and very bioaccumulative. |

Full text of the hazard statements in Sections 2 and 3 of this Safety Data Sheet: H301 Toxic if ingested.

| | |
|--------|---|
| H301 | Toxic if ingested. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and serious eye injury. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes severe eye irritation. H331 Toxic if inhaled. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic organisms. |
| H410 | Very toxic to aquatic organisms with long-lasting effects. |
| EUH208 | Contains reaction mass of: 5-chloro-2-metil-4-isotiazolin-3-one (EC No. 247-500-7) and 2-methyl-2H -isothiazol-3-one [EC No. 220- 239-6] (3:1). May cause an allergic reaction. EUH210 Material Safety Data Sheet available upon request. |
| EUH210 | Safety Data Sheet available on request. |

Full text of the hazard class and category codes in Sections 2 and 3 of the Safety Data Sheet:

| | |
|---------------------------------|---|
| Acute. Tox. 3, H301, H311, H331 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Carc. 2, H351 |
| Aquatic Acute 1, H400 | Hazard to the aquatic environment (acute) - Category 1. |
| Aquatic Chronic 1, H410 | Hazard to the aquatic environment (long-term) - Category 1. |
| Carc. 2, H351 | Carcinogenic, Category 2. |
| Eye Irrit. 2, H319 | Irritant effect on the eyes, Category 2. |
| Skin Corr. 1B, H314 | Skin corrosion/irritation - Category 1B. |
| Skin Irrit. 2, H315 | Irritant effect on the skin Category 2. |
| Skin Sens. 1, H317 | Skin Sensitization - Category 1. |

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Mixture classification method: Classification was based on the properties of each component.

References:

- Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
- Regulation (EU) 2016/1179 (IX Atp. CLP)
- Regulation (EU) 2017/776 (X Atp. CLP)
- Regulation (EU) 2018/669 (XI Atp. CLP)
- Regulation (EU) 2019/521 (XII Atp. CLP)
- Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP) - Regulation (EU) 2019/1148
- Delegated Regulation (EU) 2020/217 (XIV Atp. CLP) - Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
- Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
- Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
- Delegated Regulation (EU) 2022/692 (XVIII 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 Agency Website
- Database of model SDSs of chemical substances - Ministry of Health and National Institute of Health

Legal Notice:

The above data are limited to our current knowledge. The physicochemical parameters specified describe the product in terms of safety requirements and do not constitute a guarantee for its specific characteristics, nor are they the subject of a product specification or contract. The manufacturer or distributor will not be liable for damages resulting from improper or incorrect use. It is the user's responsibility to observe applicable regulations and standards and to consider recommendations for use of the product.