SAFETY DATA SHEET

TBPPI-25-AL (IBC)

<table>
<thead>
<tr>
<th>Version</th>
<th>SDS Number</th>
<th>Print Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>600000000217</td>
<td>20.03.2018</td>
</tr>
</tbody>
</table>

1. PRODUCT AND COMPANY IDENTIFICATION

   **Product name** : TBPPI-25-AL (IBC)

   **Manufacturer or supplier’s details**

   **Company** : United Initiators GmbH

   **Address** : Dr.-Gustav-Adolph-Str. 3
                 82049 Pullach 09

   **Emergency telephone number** : +49 / 89 / 74422 – 0 (24 h)

   **E-mail address** : contact@united-in.com

   **Recommended use of the chemical and restrictions on use**

   **Recommended use** : polymerisation initiators

2. HAZARDS IDENTIFICATION

   **GHS Classification**

   **Flammable liquids** : Category 3

   **Organic peroxides** : Type F

   **Skin corrosion/irritation** : Category 2

   **Skin sensitisation** : Category 1

   **Specific target organ toxicity - single exposure** : Category 3 (Respiratory system)

   **Aspiration hazard** : Category 1

   **Acute aquatic toxicity** : Category 3

   **Chronic aquatic toxicity** : Category 2

   **GHS label elements**

   **Hazard pictograms** : ![Pictograms]

   **Signal word** : Danger

   **Hazard statements** : H226 Flammable liquid and vapour.
                          H242 Heating may cause a fire.
                          H304 May be fatal if swallowed and enters airways.
                          H315 Causes skin irritation.
                          H317 May cause an allergic skin reaction.
                          H335 May cause respiratory irritation.
                          H402 Harmful to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

**Prevention:**
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P233 Keep container tightly closed.
- P234 Keep only in original packaging.
- P240 Ground and bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use non-sparking tools.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/eye protection/face protection.

**Response:**
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P331 Do NOT induce vomiting.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- P391 Collect spillage.

**Storage:**
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P410 Protect from sunlight.
- P411 Store at temperatures not exceeding -5 °C/23 °F.
- P420 Store separately.

**Disposal:**
- P501 Dispose of contents/container to an approved waste disposal plant.

**Other hazards which do not result in classification**

Vapours may form explosive mixture with air.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Substance / Mixture</th>
<th>Chemical nature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Organic Peroxide</td>
</tr>
</tbody>
</table>
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Liquid mixture

Hazardous components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heptane, 2,2,4,6,6-pentamethyl-</td>
<td>13475-82-6</td>
<td>&gt;= 70 - &lt; 90</td>
</tr>
<tr>
<td>tert-butyl peroxypivalate</td>
<td>927-07-1</td>
<td>&gt;= 20 - &lt; 30</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General advice: Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
Symptoms of poisoning may appear several hours later.
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.
Call a physician immediately.

If inhaled: Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathed in, move person into fresh air.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash contaminated clothing before re-use.
If on skin, rinse well with water.
If on clothes, remove clothes.
If symptoms persist, call a physician.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear.
Do NOT induce vomiting.
Call a physician immediately.
Contact a poison control center.
Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed: May be fatal if swallowed and enters airways.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.

Protection of first-aiders: First Aid responders should pay attention to self-protection and use the recommended protective clothing.

Notes to physician: Treat symptomatically and supportively.
5. FIREFIGHTING MEASURES

**Suitable extinguishing media:**
- Water spray
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

**Unsuitable extinguishing media:**
- High volume water jet

**Specific hazards during firefighting:**
- Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
- The product burns violently.
- Flash back possible over considerable distance.
- Vapours may form explosive mixtures with air.
- The product will float on water and can be reignited on surface water.
- Cool closed containers exposed to fire with water spray.

**Specific extinguishing methods:**
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

- Do not use a solid water stream as it may scatter and spread fire.
- Remove undamaged containers from fire area if it is safe to do so.
- Use water spray to cool unopened containers.

**Special protective equipment for firefighters:**
- Wear self-contained breathing apparatus for firefighting if necessary.
- Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**
- Use personal protective equipment.
- Ensure adequate ventilation.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.
- Follow safe handling advice and personal protective equipment recommendations.
- Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- Never return spills in original containers for re-use.
- Treat recovered material as described in the section "Disposal considerations".

**Environmental precautions:**
- Prevent product from entering drains.
- Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up:

Contact with incompatible substances can cause decomposition at or below SADT.
Clear spills immediately.
Suppress (knock down) gases/vapours/mists with a water spray jet.
To clean the floor and all objects contaminated by this material, use plenty of water.
Soak up with inert absorbent material.
Isolate waste and do not reuse.
Non-sparking tools should be used.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

7. HANDLING AND STORAGE

Technical measures:
See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion:
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from heat and sources of ignition. Use only explosion-proof equipment. Keep away from combustible material.

Advice on safe handling:
Do not swallow.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Avoid formation of aerosol.
Take precautionary measures against static discharges.
Never return any product to the container from which it was originally removed.
Provide sufficient air exchange and/or exhaust in work rooms.
Avoid confinement.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Protect from contamination.

Conditions for safe storage:
Avoid impurities (e.g. rust, dust, ash), risk of decomposition.
Electrical installations / working materials must comply with the technological safety standards.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
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Store in original container.
Keep containers tightly closed in a cool, well-ventilated place.
Store in accordance with the particular national regulations.

Materials to avoid:
Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature:
-5 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Engineering measures:
Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection:
In the case of dust or aerosol formation use respirator with an approved filter.

Filter type:
ABEK-filter

Hand protection:
Material: butyl-rubber
Break through time: >= 480 min
Glove thickness: 0.5 mm

Eye protection:
Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.
Ensure that eyewash stations and safety showers are close to the workstation location.

Skin and body protection:
Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Hygiene measures:
Keep away from food and drink.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Colour: colourless
Odour: ester-like
pH: No data available
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point/range</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Decomposition: Decomposes below the boiling point.</td>
</tr>
<tr>
<td>Flash point</td>
<td>49 °C</td>
</tr>
<tr>
<td>Method</td>
<td>ISO 3679</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>0.78 g/cm³ (20 °C)</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>insoluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td></td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>2 mPa.s (20 °C)</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not explosive</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>The substance or mixture is not classified as oxidizing. Organic peroxide</td>
</tr>
<tr>
<td>Self-Accelerating decomposition temperature</td>
<td>20 °C</td>
</tr>
<tr>
<td>(SADT)</td>
<td>Method: UN-Test H.4</td>
</tr>
<tr>
<td></td>
<td>SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.42 at 20 °C</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended storage conditions.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapours may form explosive mixture with air.

Conditions to avoid: Protect from contamination. Contact with incompatible substances can cause decomposi-
Incompatible materials: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

Hazardous decomposition products: Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity: Acute toxicity estimate: > 10 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:

<table>
<thead>
<tr>
<th>Heptane, 2,2,4,6,6-pentamethyl-</th>
</tr>
</thead>
</table>
| Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity
Remarks: Based on data from similar materials

<table>
<thead>
<tr>
<th>tert-butyl peroxyvalerate:</th>
</tr>
</thead>
</table>
| Acute oral toxicity: LD50 (Rat): 4,169 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (Rat): 7.1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity: LD50 (Rabbit): 2,500 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation
Causes skin irritation.

Product:
Remarks: May cause skin irritation and/or dermatitis.

Components:
Heptane, 2,2,4,6,6-pentamethyl-:
Result: Repeated exposure may cause skin dryness or cracking.

tert-butyl peroxypivalate:
Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation

Serious eye damage/eye irritation
Not classified based on available information.

Product:
Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

Components:
| Heptane, 2,2,4,6,6-pentamethyl-:
Remarks: No data available

| tert-butyl peroxypivalate:
Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

Respiratory or skin sensitisation
Skin sensitisation: May cause an allergic skin reaction.
Respiratory sensitisation: Not classified based on available information.

Product:
Remarks: Causes sensitisation.

Components:
| tert-butyl peroxypivalate:
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: May cause sensitisation by skin contact.

Germ cell mutagenicity
Not classified based on available information.

Components:
| Heptane, 2,2,4,6,6-pentamethyl-:
Germ cell mutagenicity - : No known effect.
Assessment

| tert-butyl peroxypivalate:
Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: negative

: Method: OECD Test Guideline 476
Result: negative
Genotoxicity in vivo:
Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity:
Not classified based on available information.

Components:
- **Heptane, 2,2,4,6,6-pentamethyl-**
  - Carcinogenicity - Assessment: No known effect.

Reproductive toxicity:
Not classified based on available information.

Components:
- **Heptane, 2,2,4,6,6-pentamethyl-**
  - Reproductive toxicity - Assessment: No known effect.

**tert-butyl peroxypivalate**:
- Effects on fertility: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
  - Species: Rat
  - Application Route: oral (gavage)
  - General Toxicity - Parent: No observed adverse effect level: 150 mg/kg body weight
  - Method: OECD Test Guideline 422

**STOT - single exposure**
May cause respiratory irritation.

Components:
- **tert-butyl peroxypivalate**:
  - Assessment: May cause respiratory irritation.

**STOT - repeated exposure**
Not classified based on available information.

**Repeated dose toxicity**

Components:
- **tert-butyl peroxypivalate**:
  - Species: Rat
  - No observed adverse effect level: 150 mg/kg
  - Application Route: oral (gavage)
  - Exposure time: 28 d
  - Method: OECD Test Guideline 422
Species: Rat  
No observed adverse effect level: 160 mg/kg  
Application Route: oral (gavage)  
Exposure time: 90 d  
Method: OECD Test Guideline 408  
Remarks: Based on data from similar materials

Aspiration toxicity  
May be fatal if swallowed and enters airways.

Components:  
| Heptane, 2,2,4,6,6-pentamethyl-:  
May be fatal if swallowed and enters airways.  
| tert-butyl peroxypivalate:  
May be fatal if swallowed and enters airways.

Further information  
Product:  
Remarks: Solvents may degrease the skin.

Components:  
| Heptane, 2,2,4,6,6-pentamethyl-:  
Remarks: May cause headache and dizziness.

12. ECOLOGICAL INFORMATION

Ecotoxicity  
Product:  
Ecotoxicology Assessment  
Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

Components:  
| Heptane, 2,2,4,6,6-pentamethyl-:  
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia (water flea)): > 0.04 mg/l  
Exposure time: 48 h  
Remarks: Information given is based on data obtained from similar substances.  
Toxicity to algae: IC50 (algae): > 0.04 mg/l  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.  
Ecotoxicology Assessment  
Acute aquatic toxicity: This product has no known ecotoxicological effects.  
Chronic aquatic toxicity: May cause long lasting harmful effects to aquatic life.
tert-butyl peroxypivalate:

Toxicity to fish: LC50 (Brachydanio rerio (zebrafish)): 29.0 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

NOEC (Danio rerio (zebra fish)): 13.3 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 6.99 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

EC100 (Daphnia magna (Water flea)): 14.44 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 2.94 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae: ErC50 (Pseudokirchneriella subcapitata (green algae)): 1,417 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.096 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

LOEC (Pseudokirchneriella subcapitata (green algae)): 0.189 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to bacteria: EC10 (Pseudomonas putida): > 10,000 mg/l

Persistence and degradability

Components:

Heptane, 2,2,4,6,6-pentamethyl-:
Biodegradability: Result: Not readily biodegradable.

tert-butyl peroxypivalate:
Biodegradability: Result: Biodegradable
Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

Heptane, 2,2,4,6,6-pentamethyl-:
Partition coefficient: n-: Remarks: No data available
octanol/water

<table>
<thead>
<tr>
<th>tert-butyl peroxypivalate:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Partition coefficient: n-octanol/water</td>
</tr>
</tbody>
</table>

Mobility in soil
No data available

Other adverse effects

Product:
Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life.
Toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of wastes in an approved waste disposal facility.

Contaminated packaging: Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
Dispose of in accordance with local regulations.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG
UN number: 3119
Proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYL PEROXYPIVALATE)
Class: 5.2
Packing group: Not assigned by regulation
Labels: 5.2

IATA-DGR
Not permitted for transport

IMDG-Code
UN number: 3119
Proper shipping name: ORGANIC PEROXIDE TYPE F, LIQUID, TEMPERATURE CONTROLLED (tert-BUTYL PEROXYPIVALATE)
Class: 5.2
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-F, S-R
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

Additional advice:
Temperature controlled transport:
Control temperature : 10 °C
Emergency temperature : 15 °C

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
Gefahrengruppe nach § 3 BGV B4: III (German regulatory requirements)
The components of this product are reported in the following inventories:

DSL (CA) : All components of this product are on the Canadian DSL
AICS (AU) : On the inventory, or in compliance with the inventory
NZIoC (NZ) : On the inventory, or in compliance with the inventory
ENCS (JP) : On the inventory, or in compliance with the inventory
ISHL (JP) : On the inventory, or in compliance with the inventory
KECI (KR) : On the inventory, or in compliance with the inventory
PICCS (PH) : On the inventory, or in compliance with the inventory
IECSC (CN) : On the inventory, or in compliance with the inventory
TCSI (TW) : On the inventory, or in compliance with the inventory
TSCA (US) : On TSCA Inventory

16. OTHER INFORMATION

Full text of other abbreviations
AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; CPR - Controlled Products Regulations; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International-
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

AE / EN