1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BCHPC

Chemical nature : Organic Peroxide
Solid

Manufacturer or supplier's details
Company : Shanghai United Initiators Trading Co. Ltd.
1702, Asia Mansion
Address : 650 Han Kou Road
Shanghai, China 09 200001
Telephone : +86 21 34293909
Emergency telephone number : +86 21 34293909
E-mail address : cs-initiators.cn@united-in.com

Recommended use of the chemical and restrictions on use
Recommended use : polymerisation initiators

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance : powder
Colour : white
Odour : characteristic

Heating may cause a fire. May be harmful if swallowed. May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

GHS Classification
Organic peroxides : Type C

Acute toxicity (Oral) : Category 5
Skin sensitisation : Category 1
Short-term (acute) aquatic hazard : Category 3
Long-term (chronic) aquatic hazard : Category 3

GHS label elements
Hazard pictograms:

- DANGER
- WARNING

Signal word: Danger

Hazard statements:
- H242 Heating may cause a fire.
- H303 May be harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

Prevention:
- P210 Keep away from heat/sparks/open flames/hot surfaces.
- No smoking.
- P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.
- P234 Keep only in original container.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- 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:
- P302 + P352 IF ON SKIN: Wash with plenty of water.
- P312 Call a POISON CENTER/doctor if you feel unwell.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:
- P410 Protect from sunlight.
- P411 + P235 Store at temperatures not exceeding < 20 °C/ < 68 °F. Keep cool.
- P420 Store away from other materials.

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

Physical and chemical hazards
Heating may cause a fire.

Health hazards
May be harmful if swallowed. May cause an allergic skin reaction.

Environmental hazards
Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Other hazards which do not result in classification
None known.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Substance name : Di(4-tert-butylocyclohexyl) peroxydicarbonate

CAS-No. : 15520-11-3

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di(4-tert-butylocyclohexyl) peroxydicarbonate</td>
<td>15520-11-3</td>
<td>&lt;= 100</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. Call a physician immediately.

If inhaled : If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician. 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. Call a physician immediately. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed : May be harmful if swallowed. May cause an allergic skin reaction.

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

<table>
<thead>
<tr>
<th>Suitable extinguishing media</th>
<th>Water spray jet</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Alcohol-resistant foam</td>
</tr>
<tr>
<td></td>
<td>Carbon dioxide (CO2)</td>
</tr>
<tr>
<td></td>
<td>Dry chemical</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Personal precautions, protective equipment and emergency procedures</th>
<th>Use personal protective equipment.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Avoid dust formation.</td>
</tr>
<tr>
<td></td>
<td>Avoid breathing dust.</td>
</tr>
<tr>
<td></td>
<td>Remove all sources of ignition.</td>
</tr>
<tr>
<td></td>
<td>Follow safe handling advice and personal protective equipment recommendations.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environmental precautions</th>
<th>Prevent product from entering drains.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Prevent further leakage or spillage if safe to do so.</td>
</tr>
<tr>
<td></td>
<td>If the product contaminates rivers and lakes or drains inform respective authorities.</td>
</tr>
</tbody>
</table>

| Methods and materials for | Contact with incompatible substances can cause decomposition |
containment and cleaning up: 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.

Prevention of secondary hazards: Never return spills in original containers for re-use. Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

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

Advice on protection against fire and explosion: Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. 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. 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.

Avoidance of contact: Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents.
**SAFETY DATA SHEET**
according to GB/T 16483 and GB/T 17519

**BCHPC**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>2019/01/17</td>
<td>600000000023</td>
<td>2017/06/28</td>
<td>2017/02/20</td>
</tr>
</tbody>
</table>

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### Storage

**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.
- 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**
- $< 20 \, ^\circ C$

**Further information on storage stability**
- No decomposition if stored normally.

---

### 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**: Filter type P

**Eye/face 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.

**Hand protection**
- **Material**: butyl-rubber
- **Break through time**: $\geq 480 \, \text{min}$
- **Glove thickness**: 0.5 mm

**Remarks**
- Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications,
we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

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: powder

Colour: white

Odour: characteristic

Odour Threshold: No data available

pH: No data available

Melting point/freezing point: 82 °C
Decomposition: Decomposes below the melting point.

Initial boiling point and boiling range: Decomposition: Decomposes below the boiling point.

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas): Not applicable

Upper explosion limit / Upper flammability limit: No data available

Lower explosion limit / Lower flammability limit: No data available

Vapour pressure: > 0.00001 hPa (20 °C)

Relative vapour density: Not applicable

Bulk density: 1,100 kg/m³ (20 °C)

Solubility(ies)
   Water solubility: 0.0056 g/l insoluble (5 °C)

Partition coefficient: n-octanol/water: log Pow: 8.34

Self-Accelerating decomposition temperature (SADT): 45 °C
Method: UN-Test H.4
SADT-Self Accelerating Decomposition Temperature. Lowest
8 / 16

temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

Viscosity
  Viscosity, dynamic : Not applicable
  Viscosity, kinematic : Not applicable

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.
  Organic peroxide

10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Dust may form explosive mixture in air.

Conditions to avoid
  : Protect from contamination.
  : Contact with incompatible substances can cause decomposition at or below SADT.
  : Heat, flames and sparks.
  : Avoid confinement.

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
  May be harmful if swallowed.

Product:
  Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
  : Method: OECD Test Guideline 401
  : Assessment: The component/mixture is minimally toxic after single ingestion.

  Acute inhalation toxicity : Remarks: No data available

  Acute dermal toxicity : Remarks: No data available

Components:
  Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is minimally toxic after single ingestion.

Acute inhalation toxicity: Remarks: No data available

Acute dermal toxicity: Remarks: No data available

Skin corrosion/irritation
Not classified based on available information.

Product:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: May cause skin irritation in susceptible persons.

Components:
Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

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

Product:
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405
Remarks: Product dust may be irritating to eyes, skin and respiratory system.

Components:
Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Skin sensitisation
May cause an allergic skin reaction.

Respiratory sensitisation
Not classified based on available information.
SAFETY DATA SHEET
according to GB/T 16483 and GB/T 17519

BCHPC

Version 2.0  Revision Date: 2019/01/17  SDS Number: 600000000023  Date of last issue: 2017/06/28  Date of first issue: 2017/02/20

**Product:**
Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.
Remarks: Causes sensitisation.

**Components:**
Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.

**Germ cell mutagenicity**
Not classified based on available information.

**Product:**
Genotoxicity in vitro: Method: OECD Test Guideline 471
Result: negative

Method: OECD Test Guideline 476
Result: negative

Method: OECD Test Guideline 487
Result: negative

Genotoxicity in vivo: Remarks: No data available

**Components:**
Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Genotoxicity in vitro: Method: OECD Test Guideline 471
Result: negative

Method: OECD Test Guideline 476
Result: negative

Method: OECD Test Guideline 487
Result: negative

Genotoxicity in vivo: Remarks: No data available

**Carcinogenicity**
Not classified based on available information.

**Product:**
Remarks: This information is not available.

**Components:**
Di(4-tert-butylcyclohexyl) peroxydicarbonate:
REPRODUCTIVE TOXICITY
Not classified based on available information.

COMPONENTS:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Effects on fertility : Remarks: This information is not available.
Effects on foetal development : Remarks: This information is not available.

STOT - single exposure
Not classified based on available information.

PRODUCT:
Remarks : No data available

COMPONENTS:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Remarks : No data available

STOT - repeated exposure
Not classified based on available information.

REPEATED DOSE TOXICITY

PRODUCT:
Species : Rat
NOAEL : 500 mg/kg
LOAEL : 1,000 mg/kg
Application Route : Oral
Exposure time : 28 d
Method : OECD Test Guideline 407

COMPONENTS:

Di(4-tert-butylcyclohexyl) peroxydicarbonate:
Species : Rat
NOAEL : 500 mg/kg
LOAEL : 1,000 mg/kg
Application Route : Oral
Exposure time : 28 d
Method : OECD Test Guideline 407

ASPIRATION TOXICITY
Not classified based on available information.

PRODUCT:
No data available
12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Product:**

Toxicity to fish

- LC50 (Oncorhynchus mykiss (rainbow trout)): 704 mg/l
  - Exposure time: 96 h
  - Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

- EC50 (Daphnia magna (Water flea)): 42 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202

Toxicity to algae

- EC50 (Desmodesmus subspicatus (green algae)): 39 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201

**Components:**

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Toxicity to fish

- LC50 (Oncorhynchus mykiss (rainbow trout)): 704 mg/l
  - Exposure time: 96 h
  - Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

- EC50 (Daphnia magna (Water flea)): 42 mg/l
  - Exposure time: 48 h
  - Method: OECD Test Guideline 202

Toxicity to algae

- EC50 (Desmodesmus subspicatus (green algae)): 39 mg/l
  - Exposure time: 72 h
  - Method: OECD Test Guideline 201

**Persistence and degradability**

**Product:**

Biodegradability

- Result: Not readily biodegradable.
  - Method: OECD Test Guideline 301B

**Components:**

Di(4-tert-butylcyclohexyl) peroxydicarbonate:

Biodegradability

- Result: Not readily biodegradable.
Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:
Bioaccumulation : Bioconcentration factor (BCF): 2,926

Components:

Di(4-tert-butylicyclohexyl) peroxycarbonate:
Bioaccumulation : Bioconcentration factor (BCF): 2,926

Partition coefficient: n-octanol/water : log Pow: 8.34
Remarks: Calculation

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 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 : UN 3114
Proper shipping name : ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED (DI-(4-tert-BUTYLCYCLOHEXYL) PEROXYDICARBONATE)
Class : 5.2
Packing group : Not assigned by regulation
Labels : 5.2

**IATA-DGR**
Not permitted for transport

**IMDG-Code**
- UN number: UN 3114
- Proper shipping name: ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED
  (DI-(4-tert-BUTYLCYCLOHEXYL)PEROXYDICARBONATE)
- Class: 5.2
- Packing group: Not assigned by regulation
- Labels: 5.2
- EmS Code: F-F, S-R
- Marine pollutant: no

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

**National Regulations**

**GB 6944/12268**
- UN number: UN 3114
- Proper shipping name: ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED
  (DI-(4-tert-BUTYLCYCLOHEXYL)PEROXYDICARBONATE)
- Class: 5.2
- Packing group: Not assigned by regulation
- Labels: 5.2

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15. REGULATORY INFORMATION**

**National regulatory information**

**Gefahrgruppe nach § 3 BGV B4: Ia (German regulatory requirements)**

**Regulations on Safety Management of Hazardous Chemicals**
- Catalogue of Hazardous Chemicals: Listed

**Identification of Major Hazard Installations for Dangerous Chemicals (GB 18218)**
- Category: Organic peroxides
- Threshold quantity: 50 t

**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
BCHPC

16. OTHER INFORMATION

Further information

Other information: This safety datasheet only contains information relating to safety and does not replace any product information or product specification. These safety instructions also apply to empty packaging which may still contain product residues.


Date format: yyyy/mm/dd

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 Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50% of a test population; LD50 - Lethal Dose to
50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

Disclaimer

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.

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