PolyOne Chromatics

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# SAFETY DATA SHEET

### S551.0 PEEK381 CC HALF FDA BLACK

| Section 1. Identification  |   |  |
|--|---|--|
| GHS product identifier<br>Chemical name<br>CAS number<br>Other means of identification<br>Product type | : | S551.0 PEEK381 CC HALF FDA BLACK<br>Mixture<br>Mixture<br>CC01060220<br>solid                        |
| <u>Relevant identified uses of the subs</u><br>Product use   | tance<br>:                              | or mixture and uses advised against<br>Industrial applications. Plastics.                            |
| Supplier's details   | :                                       | <b>Colorant Chromatics</b><br>Chromatics, Inc.<br>19 Francis J. Clarke Circle, Bethel, CT 06801, USA |
| Emergency telephone number<br>(with hours of operation)  | :                                       | +1 800 242 2296<br>CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or<br>accident).   |

## Section 2. Hazards identification

This mixture has not been evaluated as a whole for health effects. All ingredients are bound in a polymer matrix and potential for hazardous exposure as shipped is minimal. Fluoropolymers heated above 350 C can evolve hydrogen fluoride and carbonyl fluoride as degradation products. Processing at elevated temperatures may release fumes that can cause polymer fume fever. The end-user (fabricator) should take necessary precautions (mechanical ventilation, local exhaust, respiratory protection, etc.) to protect employees from exposure to any vapors or dusts that may be released during heating or fabrication. See Sections 8 and 11 for special precautions. After handling, always wash hands thoroughly with soap and water.

| OSHA/HCS status                            | : | While this material is not considered hazardous by the OSHA Hazard<br>Communication Standard (29 CFR 1910.1200), this SDS contains<br>valuable information critical to the safe handling and proper use of the<br>product. This SDS should be retained and available for employees and<br>other users of this product. |
|--|---|--|
| Classification of the substance or mixture | : | Not classified.  |

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| GHS label elements               |   |   |
|----------------------------------|---|---|
| Signal word                      | : | No signal word.                                   |
| Hazard statements                | : | No known significant effects or critical hazards. |
| Precautionary statements         |   |   |
| General                          | : | Not applicable.                                   |
| Prevention                       | : | Not applicable.                                   |
| Response                         | : | Not applicable.                                   |
| Storage                          | : | Not applicable.                                   |
| Disposal                         | : | Not applicable.                                   |
| Supplemental label elements      | : | None known.                                       |
| Hazards not otherwise classified | : | None known.                                       |

## Section 3. Composition/information on ingredients

| Substance/mixture             | : | Mixture    |
|-------------------------------|---|------------|
| Chemical name                 | : | Mixture    |
| Other means of identification | : | CC01060220 |

CAS number/other identifiers

| Ingredient name | %     | CAS number |
|-----------------|-------|------------|
| Carbon black    | 1 - 5 | 1333-86-4  |
|                 |       |            |
|                 |       |            |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### **Section 4. First aid measures**

#### Description of necessary first aid measures

Eye contact

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

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| Inhalation   | : | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.   |
|--------------|---|---|
| Skin contact | : | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| Ingestion    | : | Wash out mouth with water. Remove victim to fresh air and keep at<br>rest in a position comfortable for breathing. If material has been<br>swallowed and the exposed person is conscious, give small quantities<br>of water to drink. Do not induce vomiting unless directed to do so by<br>medical personnel. Get medical attention if symptoms occur. |

#### Most important symptoms/effects, acute and delayed

| Potential acute health effects   |   |  |
|--|---|--|
| Eye contact<br>Inhalation<br>Skin contact<br>Ingestion                               | : | No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Over-exposure signs/symptoms</b>  |   |  |
| Eye contact  | : | No specific data.  |
| Inhalation   | : | No specific data.  |
| Skin contact   | : | No specific data.  |
| Ingestion  | : | No specific data.  |
| Indication of immediate medical attention and special treatment needed, if necessary |   |  |
| Notes to physician   | : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  |
| Specific treatments  | : | No specific treatment.   |
| Protection of first-aiders   | : | No action shall be taken involving any personal risk or without suitable training.   |

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

| Suitable extinguishing media<br>Unsuitable extinguishing media | : | In case of fire, use water spray (fog), foam, dry chemical or $\rm CO_2$ .<br>None known. |
|--|---|---|
| Specific hazards arising from the                              | : | No specific fire or explosion hazard.   |
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| chemical<br>Hazardous thermal<br>decomposition products | : | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide  |
|---|---|---|
| Special protective actions for fire-<br>fighters        | : | Promptly isolate the scene by removing all persons from the vicinity<br>of the incident if there is a fire. No action shall be taken involving any<br>personal risk or without suitable training. |
| Special protective equipment for fire-fighters          | : | Fire-fighters should wear appropriate protective equipment and self-<br>contained breathing apparatus (SCBA) with a full face-piece operated<br>in positive pressure mode.                        |

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel<br>For emergency responders | :      | No action shall be taken involving any personal risk or without<br>suitable training. Evacuate surrounding areas. Keep unnecessary and<br>unprotected personnel from entering. Do not touch or walk through<br>spilled material. Put on appropriate personal protective equipment.<br>If specialised clothing is required to deal with the spillage, take note of<br>any information in Section 8 on suitable and unsuitable materials. See<br>also the information in "For non-emergency personnel". |
|---|--------|---|
| Environmental precautions                               | :      | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).   |
| Methods and materials for containme                     | ent ar | nd cleaning up  |
| Small spill   | :      | Move containers from spill area. Vacuum or sweep up material and<br>place in a designated, labeled waste container. Dispose of via a<br>licensed waste disposal contractor.   |
| Large spill   | :      | Move containers from spill area. Prevent entry into sewers, water<br>courses, basements or confined areas. Vacuum or sweep up material<br>and place in a designated, labeled waste container. Dispose of via a<br>licensed waste disposal contractor. Note: see Section 1 for emergency<br>contact information and Section 13 for waste disposal.   |

# Section 7. Handling and storage

### Precautions for safe handling

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| Protective measures<br>Advice on general occupational<br>hygiene | : | Put on appropriate personal protective equipment (see Section 8).<br>Eating, drinking and smoking should be prohibited in areas where this<br>material is handled, stored and processed. Workers should wash hands<br>and face before eating, drinking and smoking. Remove contaminated<br>clothing and protective equipment before entering eating areas. See<br>also Section 8 for additional information on hygiene measures.   |
|--|---|--|
| Conditions for safe storage,<br>including any incompatibilities  | : | Store in accordance with local regulations. Store in original container<br>protected from direct sunlight in a dry, cool and well-ventilated area,<br>away from incompatible materials (see Section 10) and food and<br>drink. Keep container tightly closed and sealed until ready for use.<br>Containers that have been opened must be carefully resealed and kept<br>upright to prevent leakage. Do not store in unlabeled containers. Use<br>appropriate containment to avoid environmental contamination. |

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

| Ingredient name                  | Exposure limits  |
|----------------------------------|--|
| Carbon black                     | OSHA PEL 1989 (1989-03-01)   |
|                                  | PEL: Permissible Exposure Level 3.5 mg/m3  |
|                                  | OSHA PEL (1993-06-30)  |
|                                  | PEL: Permissible Exposure Level 3.5 mg/m3  |
|                                  | NIOSH REL (1994-06-01)   |
|                                  | Time Weighted Average (TWA) 3.5 mg/m3  |
|                                  | Time Weighted Average (TWA)  |
|                                  | ACGIH TLV (2010-12-06)   |
|                                  | TLV-TWA: Threshold Limit Value - Time weighted average PEL:  |
|                                  | Permissible Exposure Level 3 mg/m3 Form: Inhalable fraction  |
|                                  |  |
| Appropriate engineering controls | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.   |
| Environmental exposure controls  | : Emissions from ventilation or work process equipment should be<br>checked to ensure they comply with the requirements of<br>environmental protection legislation. In some cases, fume scrubbers,<br>filters or engineering modifications to the process equipment will be<br>necessary to reduce emissions to acceptable levels. |

### **Individual protection measures**

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| Hygiene measures<br>Eye/face protection | products, before ea<br>of the working per<br>remove potentially<br>clothing before reu<br>showers are close t<br>Safety eyewear con | rms and face thoroughly after handling chemical<br>ting, smoking and using the lavatory and at the end<br>iod. Appropriate techniques should be used to<br>contaminated clothing. Wash contaminated<br>sing. Ensure that eyewash stations and safety<br>o the workstation location.<br>nplying with an approved standard should be used |
|---|---|---|
|   | liquid splashes, mi<br>following protectio  | nent indicates this is necessary to avoid exposure to<br>sts, gases or dusts. If contact is possible, the<br>on should be worn, unless the assessment indicates a<br>rotection: safety glasses with side-shields.   |
| Skin protection                         |   |   |
| Hand protection                         | standard should be  | , impervious gloves complying with an approved<br>worn at all times when handling chemical products<br>t indicates this is necessary.   |
| Body protection                         | : Personal protective<br>on the task being p  | e equipment for the body should be selected based<br>erformed and the risks involved and should be<br>ialist before handling this product.  |
| Other skin protection                   | should be selected  | ear and any additional skin protection measures<br>based on the task being performed and the risks<br>d be approved by a specialist before handling this  |
| Respiratory protection                  | approved standard<br>Respirator selection   | ed, particulate filter respirator complying with an<br>if a risk assessment indicates this is necessary.<br>n must be based on known or anticipated exposure<br>of the product and the safe working limits of the   |

# Section 9. Physical and chemical properties

#### **Appearance**

| Physical state   | : | solid [Pellets.] |
|------------------|---|------------------|
| Color            | : | BLACK            |
| Odor             | : | Not available.   |
| Odor threshold   | : | Not available.   |
| pH               | : | Not available.   |
| Melting point    | : | Not available.   |
| Boiling point    | : | Not available.   |
| Flash point      | : | Not available.   |
| Burning time     | : | Not available.   |
| Burning rate     | : | Not available.   |
| Evaporation rate | : | Not available.   |

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| Flammability (solid, gas)        | : | Not available.            |
|----------------------------------|---|---------------------------|
| Lower and upper explosive        | : | Lower: Not available.     |
| (flammable) limits               |   | Upper: Not available.     |
| Vapor pressure                   | : | Not available.            |
| Vapor density                    | : | Not available.            |
| Relative density                 | : | Not available.            |
| Solubility                       | : | Not available.            |
| Solubility in water              | : | Not available.            |
| Partition coefficient: n-        | : | Not available.            |
| octanol/water                    |   |                           |
| Auto-ignition temperature        | : | Not available.            |
| <b>Decomposition temperature</b> | : | Not available.            |
| SADT                             | : | Not available.            |
| Viscosity                        | : | Dynamic: Not available.   |
| ·                                |   | Kinematic: Not available. |

# Section 10. Stability and reactivity

| Reactivity                         | : | No specific test data related to reactivity available for this product or its ingredients.           |
|------------------------------------|---|--|
| Chemical stability                 | : | Stable under recommended storage and handling conditions (see Section 7).                            |
| Possibility of hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.                      |
| Conditions to avoid                | : | Keep away from extreme heat and oxidizing agents.  |
| Incompatible materials             | : | Keep away from strong acids.<br>Oxidizer.  |
| Hazardous decomposition products   | : | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

# Section 11. Toxicological information

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                    | Result    | Species | Dose         | Exposure |
|--|-----------|---------|--------------|----------|
| Carbon black                               |           |         |              |          |
|  | LD50 Oral | Rat     | 15,400 mg/kg | -        |
| Conclusion/Summary : No results available. |           |         |              |          |

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### Irritation/Corrosion

| Conclusion/Summary<br>Skin<br>Eyes<br>Respiratory                    | : N  | lo results availabl<br>⁄lixture.<br>⁄lixture. | e.  |  |
|--|------|---|-----|--|
| <u>Sensitization</u><br>Conclusion/Summary<br>Skin<br>Respiratory    |      | lo results availabl<br>Aixture.               | le. |  |
| <u>Mutagenicity</u><br>Conclusion/Summary<br><u>Carcinogenicity</u>  | : N  | lo results availabl                           | le. |  |
| Conclusion/Summary<br><u>Classification</u>                          |      | lo results availabl                           |     |  |
| Product/ingredient<br>name<br>Carbon black                           | OSHA | IARC<br>2B                                    | NTP |  |
| <b>Reproductive toxicity</b>   |      |   |     |  |
| Conclusion/Summary   | : 1  | lo results availabl                           | e.  |  |
| <b>Teratogenicity</b>  |      |   |     |  |
| Conclusion/Summary   | : 1  | lo results availabl                           | e.  |  |
| Specific target organ toxicity (single exposure)<br>Not available.   |      |   |     |  |
| Specific target organ toxicity (repeated exposure)<br>Not available. |      |   |     |  |
| Aspiration hazard<br>Not available.                                  |      |   |     |  |
| Information on the likely routes of : Not available.<br>exposure     |      |   |     |  |
| Potential acute health effects                                       |      |   |     |  |
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| Eye contact :  | No known significant effects or critical hazards. |
|----------------|---|
| Inhalation :   | No known significant effects or critical hazards. |
| Skin contact : | No known significant effects or critical hazards. |
| Ingestion :    | No known significant effects or critical hazards. |

#### Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact  | : | No specific data. |
|--------------|---|-------------------|
| Inhalation   | : | No specific data. |
| Skin contact | : | No specific data. |
| Ingestion    | : | No specific data. |

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

| Potential immediate effects<br>Potential delayed effects | : | Not available.<br>Not available.   |
|--|---|--|
| Long term exposure                                       |   |  |
| Potential immediate effects<br>Potential delayed effects | : | Not available.<br>Not available.   |
| Potential chronic health effects                         |   |  |
| Conclusion/Summary                                       | : | No results available.  |
| General<br>Carcinogenicity                               | : | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| Mutagenicity   | : | No known significant effects or critical hazards.  |
| Teratogenicity<br>Developmental effects                  | : | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| Fertility effects  | : | No known significant effects or critical hazards.  |

Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

# Section 12. Ecological information

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### **Toxicity**

| Product/ingredient name                              | Result                             | Species                           | Exposure |
|--|------------------------------------|-----------------------------------|----------|
| Carbon black   |                                    |                                   |          |
|  | Acute EC50 37.563 mg/l Fresh water | Aquatic invertebrates.<br>Daphnia | 48 h     |
|  | Acute LC50 61.547 mg/l Fresh water | Aquatic invertebrates.<br>Daphnia | 48 h     |
| Conclusion/Summary                                   | : Not available.                   |                                   |          |
| Conclusion/Summary                                   | : Not available.                   |                                   |          |
| Bioaccumulative potential<br><u>Mobility in soil</u> |                                    |                                   |          |
| Soil/water partition coeffic<br>(KOC)                | ient : Not available.              |                                   |          |
| Other adverse effects                                | : No known significant             | effects or critical hazards.      |          |
|  |                                    |                                   |          |

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

### Section 14. Transport information

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| U.S. DOT Classification | : | Not regulated for transportation.     |
|-------------------------|---|---------------------------------------|
| ICAO/IATA               | : | Consult mode specific transport rules |
| IMO/IMDG (maritime)     | : | Consult mode specific transport rules |

# Section 15. Regulatory information

| U.S. Federal regulations   | : | United States - TSCA 12(b) - Chemical export notification: None<br>of the components are listed.<br>United States - TSCA 4(a) - Final Test Rules: Not listed<br>United States - TSCA 4(a) - Proposed test rules: Not listed<br>United States - TSCA 4(a) - Proposed test rules: Not listed<br>United States - TSCA 4(f) - Priority risk review: Not listed<br>United States - TSCA 5(a)2 - Final significant new use rules: Not<br>listed<br>United States - TSCA 5(a)2 - Proposed significant new use rules:<br>Not listed<br>United States - TSCA 5(e) - Substances consent order: Not listed<br>United States - TSCA 5(e) - Substances consent order: Not listed<br>United States - TSCA 6 - Final risk management: Not listed<br>United States - TSCA 6 - Proposed risk management: Not listed<br>United States - TSCA 8(a) - Chemical risk rules: Not listed<br>United States - TSCA 8(a) - Chemical risk rules: Not listed<br>United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not<br>determined<br>United States - TSCA 8(a) - Preliminary assessment report<br>(PAIR): Not listed<br>United States - TSCA 8(c) - Significant adverse reaction (SAR):<br>Not listed<br>United States - TSCA 8(d) - Health and safety studies: Not listed<br>United States - TSCA 8(d) - Health and safety studies: Not listed<br>United States - EPA Clean water act (CWA) section 307 - Priority<br>pollutants: Not listed<br>United States - EPA Clean air act (CAA) section 112 - Accidental<br>release prevention - Flammable substances: Not listed<br>United States - EPA Clean air act (CAA) section 112 - Accidental<br>release prevention - Flammable substances: Not listed<br>United States - EPA Clean air act (CAA) section 112 - Accidental<br>release prevention - Flammable substances: Not listed<br>United States - Department of commerce - Precursor chemical:<br>Not listed |
|--|---|---|
| Clean Air Act Section 112(b)<br>Hazardous Air Pollutants (HAPs)<br>Clean Air Act Section 602 Class I | : | Not listed<br>Not listed  |

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Substances:Not listedClean Air Act Section 602 Class II::Not listedSubstances::Not listedDEA List I Chemicals (Precursor::Not listedChemicals):::Not listedChemicals)::::

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

### SARA 311/312

Classification

Not applicable.

:

### **Composition/information on ingredients**

| Name         | %     | Classification |
|--------------|-------|----------------|
| Carbon black | 1 - 5 | СН             |
|              |       |                |

#### SARA 313

Not applicable.

| State regulations  |   |  |  |
|--|---|--|--|
| Massachusetts  | : | The following components are listed:<br>Carbon black |  |
| New York   | : | None of the components are listed.                   |  |
| New Jersey   | : | The following components are listed:<br>Carbon black |  |
| Pennsylvania   | : | The following components are listed:<br>Carbon black |  |
| California Prop. 65<br>WARNING: This product contains a chemical known to the State of California to cause cancer. |   |  |  |
| United States investory (TSCA 9b) . All some or states are listed on a second d                                    |   |  |  |

| United States inventory (TSCA 8b) | : | All components are listed or exempted.  |
|-----------------------------------|---|---|
| Canada inventory                  | : | Not determined.   |
| International regulations         |   |   |
| International lists               | : | <ul> <li>Australia inventory (AICS): All components are listed or exempted.</li> <li>Taiwan inventory (CSNN): All components are listed or exempted.</li> <li>Malaysia Inventory (EHS Register): Not determined.</li> <li>EINECS: All components are listed or exempted.</li> </ul> |
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Japan inventory: All components are listed or exempted.
China inventory (IECSC): Not determined.
Korea inventory: All components are listed or exempted.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): All components are listed or exempted.

Chemical Weapons Convention List Schedule I Chemicals Chemical Weapons Convention List Schedule II Chemicals Chemical Weapons Convention List Schedule III Chemicals Not listed

•

:

Not listed

Not listed

# Section 16. Other information

| History |
|---------|
|---------|

| <u>IIIStol y</u>               |   |   |
|--------------------------------|---|---|
| Date of printing               | : | 12/02/2015  |
| Date of issue/Date of revision | : | 11/29/2015  |
| Date of previous issue         | : | 11/19/2015  |
| Version                        | : | 1.1   |
| Key to abbreviations           | : | ATE = Acute Toxicity Estimate   |
| ·                              |   | BCF = Bioconcentration Factor   |
|                                |   | GHS = Globally Harmonized System of Classification and Labelling of       |
|                                |   | Chemicals   |
|                                |   | IATA = International Air Transport Association                            |
|                                |   | IBC = Intermediate Bulk Container   |
|                                |   | IMDG = International Maritime Dangerous Goods                             |
|                                |   | LogPow = logarithm of the octanol/water partition coefficient             |
|                                |   | MARPOL $73/78$ = International Convention for the Prevention of Pollution |
|                                |   | From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine  |
|                                |   | pollution)  |
|                                |   | UN = United Nations   |
| References                     | : | Not available.  |
|                                |   |   |

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.