1 Identification

- Product identifier
- Trade name: Series 552
- Article number: Series 552
- Application of the substance / the mixture: Printing inks
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier: DECO TECHNOLOGY GROUP INC.
  PRINTCOLOR SCREEN AG
  TEL (714) 639-3326
  FAX (714) 639-2261
- Information department: Product safety department
- Emergency telephone number: 800-535-5053

2 Hazard(s) identification

- Classification of the substance or mixture

  GHS08 Health hazard

  Carc. 2  H351  Suspected of causing cancer.

  GHS07

  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2A  H319  Causes serious eye irritation.
  Skin Sens. 1  H317  May cause an allergic skin reaction.

- Label elements

  GHS label elements
  The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms

  GHS07  GHS08

- Signal word Warning

  Hazard-determining components of labeling:
  hexamethylene diacrylate
  Carbon black
  ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
  phenyl bis(2,4,6-trimethylbenzoyl)-phosphate oxide
  oxybis(methyl-2,1-ethanediyl) diacrylate
  pentaerythritol triacrylate
  2-(2-Ethoxyethoxy)ethylacrylat
  glycerol, propoxylated, esters with acrylic acid
  4,4’-isopropylidenepheno1, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

- Hazard statements
  Causes skin irritation.

(Contd. on page 2)
CAUSES SERIOUS EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION. SUSPECTED OF CAUSING CANCER.

**Precautionary statements**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label).

**Other hazards**

- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

**Classification system:**

**NFPA ratings (scale 0 - 4)**

- Health = 2
- Fire = 1
- Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

- Health = 2
- Fire = 1
- Reactivity = 0

**Composition/information on ingredients**

**Chemical characterization:** Mixtures

**Description:** Mixture of the substances listed below with nonhazardous additions.

**Dangerous components:**

<table>
<thead>
<tr>
<th>CAS</th>
<th>Ingredient</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>13048-33-4</td>
<td>hexamethylene diacrylate</td>
<td>10-25%</td>
</tr>
<tr>
<td>5888-33-5</td>
<td>exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate</td>
<td>10-25%</td>
</tr>
<tr>
<td>7473-98-5</td>
<td>2-hydroxy-2-methylpropiophenone</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>84434-11-7</td>
<td>ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate</td>
<td>2.5-10%</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
<td>1-2.5%</td>
</tr>
<tr>
<td>108-32-7</td>
<td>propylene carbonate</td>
<td>1-2.5%</td>
</tr>
<tr>
<td>162881-26-7</td>
<td>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>57472-68-1</td>
<td>oxybis(methyl-2,1-ethanediyl) diacrylate</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>3524-68-3</td>
<td>pentaerythritol triacrylate</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>7328-17-8</td>
<td>2-(2-Ethoxyethoxy)ethylacrylat</td>
<td>&lt;0.5%</td>
</tr>
</tbody>
</table>

(Contd. on page 3)
Trade name: Series 552

4 First-aid measures

· Description of first aid measures
· General information: Immediately remove any clothing soiled by the product.
· After inhalation: Seek medical treatment in case of complaints.
· After skin contact: Immediately rinse with water. If skin irritation continues, consult a doctor.
· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· After swallowing: If symptoms persist consult doctor.
· Information for doctor:
  · Most important symptoms and effects, both acute and delayed
    No further relevant information available.
  · Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

· Extinguishing media
· Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· Special hazards arising from the substance or mixture No further relevant information available.
· Advice for firefighters
· Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.
· Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
· Reference to other sections
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.
· Protective Action Criteria for Chemicals

<table>
<thead>
<tr>
<th>PAC-1:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 13048-33-4</td>
<td>hexamethylene diacrylate 3 mg/m³</td>
</tr>
<tr>
<td>CAS: 1333-86-4</td>
<td>Carbon black 9 mg/m³</td>
</tr>
<tr>
<td>CAS: 108-32-7</td>
<td>propylene carbonate 34 mg/m³</td>
</tr>
<tr>
<td>CAS: 7631-86-9</td>
<td>silicon dioxide, chemically prepared 18 mg/m³</td>
</tr>
<tr>
<td>CAS: 63148-62-9</td>
<td>Polydimethylsiloxan 85 mg/m³</td>
</tr>
<tr>
<td>CAS: 108-65-6</td>
<td>2-methoxy-1-methylethyl acetate 50 ppm</td>
</tr>
<tr>
<td>CAS: 120-51-4</td>
<td>Benzyl benzoate 5.7 mg/m³</td>
</tr>
<tr>
<td>CAS: 97-88-1</td>
<td>n-butyl methacrylate 19 mg/m³</td>
</tr>
<tr>
<td>CAS: 111-76-2</td>
<td>2-butoxyethanol 60 ppm</td>
</tr>
</tbody>
</table>

(Contd. on page 4)
**Safety Data Sheet**

**acc. to OSHA HCS**

Printing date 01/08/2019
Reviewed on 01/08/2019

**Trade name: Series 552**

<table>
<thead>
<tr>
<th>CAS</th>
<th>CAS: 79-10-7, acrylic acid</th>
<th>1.5 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 14808-60-7, Quartz (SiO2)</td>
<td>0.075 mg/m³</td>
<td></td>
</tr>
<tr>
<td>CAS: 80-62-6, methyl methacrylate</td>
<td>17 ppm</td>
<td></td>
</tr>
<tr>
<td>CAS: 107-98-2, 1-methoxy-2-propanol</td>
<td>100 ppm</td>
<td></td>
</tr>
<tr>
<td>CAS: 150-76-5, mequinol</td>
<td>15 mg/m³</td>
<td></td>
</tr>
<tr>
<td>CAS: 70657-70-4, 2-methoxypropyl acetate</td>
<td>50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**PAC-2:**

| CAS: 13048-33-4, hexamethylene diacrylate | 170 mg/m³ |
| CAS: 1333-86-4, Carbon black | 99 mg/m³  |
| CAS: 108-32-7, propylene carbonate | 370 mg/m³ |
| CAS: 7631-86-9, silicon dioxide, chemically prepared | 740 mg/m³ |
| CAS: 63148-62-9, Polydimethylsiloxan | 720 mg/m³ |
| CAS: 108-65-6, 2-methoxy-1-methylethyl acetate | 1,000 ppm |
| CAS: 120-51-4, Benzyl benzoate | 63 mg/m³  |
| CAS: 97-88-1, n-butyl methacrylate | 120 mg/m³ |
| CAS: 111-76-2, 2-butoxyethanol | 120 ppm  |
| CAS: 79-10-7, acrylic acid | 46 ppm   |
| CAS: 14808-60-7, Quartz (SiO2) | 33 mg/m³  |
| CAS: 80-62-6, methyl methacrylate | 120 ppm  |
| CAS: 107-98-2, 1-methoxy-2-propanol | 160 ppm  |
| CAS: 150-76-5, mequinol | 49 mg/m³  |
| CAS: 70657-70-4, 2-methoxypropyl acetate | 1,000 ppm |

**PAC-3:**

| CAS: 13048-33-4, hexamethylene diacrylate | 990 mg/m³ |
| CAS: 1333-86-4, Carbon black | 590 mg/m³ |
| CAS: 108-32-7, propylene carbonate | 2,200 mg/m³ |
| CAS: 7631-86-9, silicon dioxide, chemically prepared | 4,500 mg/m³ |
| CAS: 63148-62-9, Polydimethylsiloxan | 4,300 mg/m³ |
| CAS: 108-65-6, 2-methoxy-1-methylethyl acetate | 5,000 ppm |
| CAS: 120-51-4, Benzyl benzoate | 380 mg/m³ |
| CAS: 97-88-1, n-butyl methacrylate | 1,300 mg/m³ |
| CAS: 111-76-2, 2-butoxyethanol | 700 ppm |
| CAS: 79-10-7, acrylic acid | 180 ppm |
| CAS: 14808-60-7, Quartz (SiO2) | 200 mg/m³ |
| CAS: 80-62-6, methyl methacrylate | 570 ppm |
| CAS: 107-98-2, 1-methoxy-2-propanol | 660 ppm |
| CAS: 150-76-5, mequinol | 320 mg/m³ |
| CAS: 70657-70-4, 2-methoxypropyl acetate | 5,000 ppm |

### 7 Handling and storage

- **Handling:**
  - Precautions for safe handling: Keep away from heat and direct sunlight.
  - Information about protection against explosions and fires: No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**
  - Requirements to be met by storerooms and receptacles: No special requirements.
· Information about storage in one common storage facility:
  Store away from foodstuffs.
  Store away from oxidizing agents.
· Further information about storage conditions:
  Protect from frost.
  Protect from exposure to the light.
· Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters
· Components with limit values that require monitoring at the workplace:
  The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
  At this time, the other constituents have no known exposure limits.

| CAS: 13048-33-4 hexamethylene diacrylate | WEEL | Long-term value: 1 mg/m³ |
|                                     | DSEN |                            |

| CAS: 1333-86-4 Carbon black        | PEL  | Long-term value: 3.5 mg/m³ |
|                                    | REL  | Long-term value: 3.5* mg/m³ |
|                                    |      | "0.1 in presence of PAHs; See Pocket Guide Apps.A+C |
|                                    | TLV  | Long-term value: 3* mg/m³ |
|                                    |      | "inhalable fraction |

| CAS: 3524-68-3 pentaerythritol triacrylate | WEEL | Long-term value: 1 mg/m³ |
|                                         | DSEN |                            |

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls
· Personal protective equipment:
· General protective and hygienic measures:
  Immediately remove all soiled and contaminated clothing.
  Wash hands before breaks and at the end of work.
  Do not inhale gases / fumes / aerosols.
  Avoid contact with the eyes and skin.
· Breathing equipment: Not required.
· Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
  The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and therefore to be checked prior to the application.
· Penetration time of glove material  
  The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.  
· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:  
  Nitrile rubber, NBR  
· Eye protection:  
  Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties  
· General Information  
  · Appearance:  
    Form: Fluid  
    Color: According to product specification  
    Odor: Characteristic  
    Odor threshold: Not determined.  
· pH-value: Not determined.  
· Change in condition  
  · Melting point/Melting range: Undetermined.  
  · Boiling point/Boiling range: 90 °C (194 °F)  
· Flash point: 101 °C (213.8 °F) (Abel Pensky)  
· Flammability (solid, gaseous): Not applicable.  
· Ignition temperature: 235 °C (455 °F)  
· Decomposition temperature: Not determined.  
· Auto igniting: Product is not selfigniting.  
· Danger of explosion: Product does not present an explosion hazard.  
· Explosion limits:  
  · Lower: Not determined.  
  · Upper: Not determined.  
· Vapor pressure: Not determined.  
· Density at 20 °C (68 °F): 1.25 g/cm³ (10.43 lbs/gal)  
  · Relative density: Not determined.  
  · Vapor density: Not determined.  
  · Evaporation rate: Not determined.  
· Solubility in / Miscibility with  
  · Water: Not miscible or difficult to mix.  
· Partition coefficient (n-octanol/water): Not determined.  
· Viscosity:  
  · Dynamic: Not determined.  
  · Kinematic: Not determined.  
  · VOC content: 1.2 %  
  7.2 g/l / 0.06 lb/gal  

(Contd. on page 7)
10 Stability and reactivity

- **Reactivity**: No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided**: No decomposition if used according to specifications.
  - **Possibility of hazardous reactions**: Reacts with strong oxidizing agents. Photoreactive.
- **Conditions to avoid**: No further relevant information available.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity**:
    - **Primary irritant effect**:
      - **on the skin**: Irritant to skin and mucous membranes.
      - **on the eye**: Irritating effect.
      - **Sensitization**: Sensitization possible through skin contact.
  - **Additional toxicological information**: The product shows the following dangers according to internally approved calculation methods for preparations:
    - Irritant

- **Carcinogenic categories**
  - **IARC (International Agency for Research on Cancer)**
    - CAS: 14807-96-6 Talc (Mg3H2(SiO3)4) 3
    - CAS: 1333-86-4 Carbon black 2B
    - CAS: 7631-86-9 silicon dioxide, chemically prepared 3
    - CAS: 111-76-2 2-butoxyethanol 3
    - CAS: 79-10-7 acrylic acid 3
    - CAS: 14808-60-7 Quartz (SiO2) 1
    - CAS: 80-62-6 methyl methacrylate 3
  - **NTP (National Toxicology Program)**
    - CAS: 14808-60-7 Quartz (SiO2) K
  - **OSHA-Ca (Occupational Safety & Health Administration)**
    - None of the ingredients is listed.

12 Ecological information

- **Toxicity**
  - **Aquatic toxicity**: No further relevant information available.
  - **Persistence and degradability**: No further relevant information available.
  - **Behavior in environmental systems**:
    - **Bioaccumulative potential**: No further relevant information available.
  - **Mobility in soil**: No further relevant information available.
13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
  - DOT: Void
  - ADR, IMDG, IATA: UN3082

- **UN proper shipping name**
  - DOT: Void
  - ADR: Not restricted good \(\leq 5\) Kg/L according to SV 375
  - IMDG: Not restricted good \(\leq 5\) Kg/L according to 2.10.2.7
  - IATA: Not restricted good \(\leq 5\) Kg/L according to SP A197

- **Transport hazard class(es)**
  - DOT: Void
  - ADR: Class 9 Miscellaneous dangerous substances and articles
Trade name: Series 552

(Contd. of page 8)

- **Label**
  - IMDG, IATA
  - Class 9 Miscellaneous dangerous substances and articles
  - Not restricted good
  - Label 9

- **Packing group**
  - DOT Void
  - ADR, IMDG, IATA III

- **Environmental hazards:**
  - Product contains environmentally hazardous substances:
    - hexamethylene diacrylate
  - Marine pollutant: Yes
  - Special marking (ADR): Symbol (fish and tree)
  - Special marking (IATA): Symbol (fish and tree)

- **Special precautions for user**
  - Warning: Miscellaneous dangerous substances and articles
  - Danger code (Kemler): 90
  - EMS Number: F-A,S-F
  - Stowage Category A

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
  - Not applicable.

- **Transport/Additional information:**
  - ADR
    - Exected quantities (EQ) Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml
  - IMDG
    - Limited quantities (LQ) 5L
    - Exected quantities (EQ) Code: E1
      - Maximum net quantity per inner packaging: 30 ml
      - Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**
  - UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HEXAMETHYLENE DIACRYLATE, EXO-1,7,7-TRIMETHYLBICYCLO[2.2.1] HEPT-2-YL ACRYLATE), 9, III

---

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - Sara
    - Section 355 (extremely hazardous substances):
      - None of the ingredient is listed.
    - Section 313 (Specific toxic chemical listings):
      - CAS: 111-76-2 2-butoxyethanol
      - CAS: 79-10-7 acrylic acid

(Contd. on page 10)
Trade name: Series 552

(Contd. of page 9)

· **TSCA (Toxic Substances Control Act):**
  
<table>
<thead>
<tr>
<th>CAS</th>
<th>Compound Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>13048-33-4</td>
<td>hexamethylene diacrylate</td>
</tr>
<tr>
<td>5888-33-5</td>
<td>exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate</td>
</tr>
<tr>
<td>14807-96-6</td>
<td>Talc (Mg3H2(SiO3)4)</td>
</tr>
<tr>
<td>7473-98-5</td>
<td>2-hydroxy-2-methylpropiophenone</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
</tr>
<tr>
<td>947-19-3</td>
<td>1-Hydroxy-Cyclohexyl-Phneyketone</td>
</tr>
<tr>
<td>108-32-7</td>
<td>propylene carbonate</td>
</tr>
<tr>
<td>7631-86-9</td>
<td>silicon dioxide, chemically prepared</td>
</tr>
<tr>
<td>63148-62-9</td>
<td>Polymethylsiloxan</td>
</tr>
<tr>
<td>162881-26-7</td>
<td>phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</td>
</tr>
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</tr>
<tr>
<td>3524-68-3</td>
<td>pentaerythritol triacrylate</td>
</tr>
<tr>
<td>7328-17-8</td>
<td>2-(2-Ethoxyethoxy)ethylacylate</td>
</tr>
<tr>
<td>108-65-6</td>
<td>2-methoxy-1-methylethyl acetate</td>
</tr>
<tr>
<td>52408-84-1</td>
<td>glycerol, propoxylated, esters with acrylic acid</td>
</tr>
<tr>
<td>55818-57-0</td>
<td>4,4’-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid</td>
</tr>
<tr>
<td>71011-26-2</td>
<td>Quaternary ammonium compounds, benzyl(hydrogenated tallow alkyl) dimethyl, chlorides, compds. with hectorite</td>
</tr>
<tr>
<td>120-51-4</td>
<td>Benzyl benzoate</td>
</tr>
<tr>
<td>97-88-1</td>
<td>n-butyl methacrylate</td>
</tr>
<tr>
<td>68611-44-9</td>
<td>Kieselsäure hydrophobiert hochdisperse</td>
</tr>
<tr>
<td>42978-66-5</td>
<td>tripropylene glycol diacrylate</td>
</tr>
<tr>
<td>111-76-2</td>
<td>2-butoxyethanol</td>
</tr>
<tr>
<td>79-10-7</td>
<td>acrylic acid</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
</tr>
<tr>
<td>80-62-6</td>
<td>methyl methacrylate</td>
</tr>
<tr>
<td>107-98-2</td>
<td>1-methoxy-2-propanol</td>
</tr>
<tr>
<td>150-76-5</td>
<td>mequinol</td>
</tr>
<tr>
<td>98-55-5</td>
<td>alpha-Terpineol</td>
</tr>
<tr>
<td>138-86-3</td>
<td>dipentene</td>
</tr>
<tr>
<td>586-62-9</td>
<td>terpinolene</td>
</tr>
</tbody>
</table>

· **TSCA new (21st Century Act) (Substances not listed)**
  
<table>
<thead>
<tr>
<th>CAS</th>
<th>Compound Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>84434-11-7</td>
<td>ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate</td>
</tr>
</tbody>
</table>

· **Proposition 65**

· **Chemicals known to cause cancer:**
  
<table>
<thead>
<tr>
<th>CAS</th>
<th>Compound Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1333-86-4</td>
<td>Carbon black</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz (SiO2)</td>
</tr>
</tbody>
</table>

· **Chemicals known to cause reproductive toxicity for females:**
  None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
  None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
  None of the ingredients is listed.

(Contd. on page 11)
· Cancerogenity categories

<table>
<thead>
<tr>
<th>EPA (Environmental Protection Agency)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 111-76-2 2-butoxyethanol</td>
<td>NL</td>
</tr>
<tr>
<td>CAS: 80-62-6 methyl methacrylate</td>
<td>E, NL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TLV (Threshold Limit Value established by ACGIH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS: 14807-96-6 Talc (Mg3H2(SiO3)4) A4</td>
</tr>
<tr>
<td>CAS: 1333-86-4 Carbon black A4</td>
</tr>
<tr>
<td>CAS: 111-76-2 2-butoxyethanol A3</td>
</tr>
<tr>
<td>CAS: 79-10-7 acrylic acid A4</td>
</tr>
<tr>
<td>CAS: 14808-60-7 Quartz (SiO2) A2</td>
</tr>
<tr>
<td>CAS: 80-62-6 methyl methacrylate A4</td>
</tr>
<tr>
<td>CAS: 80-56-8 alpha-Pinene A4</td>
</tr>
</tbody>
</table>

· NIOSH-Ca (National Institute for Occupational Safety and Health)

| CAS: 1333-86-4 Carbon black       |
| CAS: 14808-60-7 Quartz (SiO2)     |

· GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

GHS07  GHS08

· Signal word
Warning

· Hazard-determining components of labeling:
  hexamethylene diacrylate
  Carbon black
  ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
  phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
  oxybis(methyl-2,1-ethanediyl) diacrylate
  pentaerythritol triacrylate
  2-(2-Ethoxyethoxy)ethylacrylat
  glycerol, propoxylated, esters with acrylic acid
  4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

· Hazard statements
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.

· Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
Take off contaminated clothing and wash it before reuse.

(Contd. on page 12)
48.0.4
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Product safety department
- Contact: hse@printcolor.ch
- Date of preparation / last revision 01/08/2019 / 2
- Abbreviations and acronyms:
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - DOT: US Department of Transportation
  - IATA: International Air Transport Association
  - ACGIH: American Conference of Governmental Industrial Hygienists
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - NFPA: National Fire Protection Association (USA)
  - HMIS: Hazardous Materials Identification System (USA)
  - VOC: Volatile Organic Compounds (USA, EU)
  - PBT: Persistent, Bioaccumulative and Toxic
  - vPvB: very Persistent and very Bioaccumulative
  - NIOSH: National Institute for Occupational Safety
  - OSHA: Occupational Safety & Health
  - TLV: Threshold Limit Value
  - PEL: Permissible Exposure Limit
  - REL: Recommended Exposure Limit
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
  - Skin Sens. 1: Skin sensitisation – Category 1
  - Carc. 2: Carcinogenicity – Category 2