SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Trade name: Series 540
- Article number: Series 540

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  No further relevant information available.

- Application of the substance / the mixture Printing inks

- 1.3 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

- Further information obtainable from: Product safety department

- 1.4 Emergency telephone number: 800-535-5053

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

  ![GHS08 health hazard]
  Repr. 2 H361 Suspected of damaging fertility or the unborn child.

  ![GHS07]
  Skin Irrit. 2 H315 Causes skin irritation.
  Eye Irrit. 2 H319 Causes serious eye irritation.
  Skin Sens. 1 H317 May cause an allergic skin reaction.
  Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.

- Hazard pictograms

  ![GHS07]  ![GHS08]

- Signal word Warning

- Hazard-determining components of labelling:
  2-hydroxyethyl methacrylate
  2,4,6-Trimethylbenzoyldiphenylphosphinoxide
  hexamethylene diacrylate
  Glycerolpropoxytriacylate
  2,2-bis(acryloyloxyethyl)butyl acrylate
  tripropylene glycol diacrylate

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- **Hazard statements**
  - H315 Causes skin irritation.
  - H319 Causes serious eye irritation.
  - H317 May cause an allergic skin reaction.
  - H361 Suspected of damaging fertility or the unborn child.
  - H412 Harmful to aquatic life with long lasting effects.

- **Precautionary statements**
  - P280 Wear protective gloves / eye protection.
  - P261 Avoid breathing vapours.
  - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P362 Take off contaminated clothing and wash before reuse.
  - P405 Store locked up.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterization: Mixtures**
  - **Description:** Mixture of substances listed below with nonhazardous additions.

| CAS: 868-77-9 | 2-hydroxyethyl methacrylate | 10-25% |
| EINECS: 212-782-2 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 |
| CAS: 5888-33-5 | Isobornylacrylat | 2.5-10% |
| EINECS: 212-782-2 | Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 |
| CAS: 29570-58-9 | Dipentaerythritolhexaacrylat | 2.5-10% |
| CAS: 13048-33-4 | Hexamethylene diacrylate | 2.5-10% |
| EINECS: 235-921-9 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 |
| CAS: 75980-60-8 | 2,4,6-Trimethylbenzoyldiphenylphosphinoxide | 2.5-10% |
| EINECS: 231-272-0 | Repr. 2, H361; Aquatic Chronic 3, H412 |
| CAS: 7473-98-5 | 2-hydroxy-2-methylpropionophenone | 2.5-10% |
| EINECS: 231-272-0 | Acute Tox. 4, H302 |
| CAS: 1333-86-4 | Carbon black | 1-2.5% |
| EINECS: 215-609-9 | |
| CAS: 63225-53-6 | 2[[butylamino]carbonyl]oxyethylacetat | 1-2.5% |
| EINECS: 231-784-4 | Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 |
| CAS: 7727-43-7 | Barium sulphate, natural | 1-2.5% |
| EINECS: 231-784-4 | |
| ELINCS: 402-990-3 | Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone] | 1-2.5% |
| CAS: 954-16-5 | 2,4,6-trimethylbenzophenone | < 1% |
| ELINCS: 304-150-9 | Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Eye Irrit. 2, H319 |
| CAS: 42978-66-5 | Tripropylene glycol diacylate | < 1% |
| EINECS: 256-032-2 | Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 |

(Contd. on page 3)
SECTION 4: First aid measures

- **4.1 Description of first aid measures**
  - **After inhalation:** Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
  - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
  - **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.

- **4.2 Most important symptoms and effects, both acute and delayed**
  No further relevant information available.

- **4.3 Indication of any immediate medical attention and special treatment needed**
  No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **5.2 Special hazards arising from the substance or mixture**
  No further relevant information available.

- **5.3 Advice for firefighters**
  - **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  Not required.

- **6.2 Environmental precautions:**
  Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  Keep away from heat and direct sunlight.
  Ensure good ventilation/exhaustion at the workplace.
  Prevent formation of aerosols.

- **Information about fire - and explosion protection:** No special measures required.

See Section 4 (Contd. of page 2)

CAS: 119313-12-1  2-benzyl-2-dimethylamino-4-morpholinobutyrophenone
ELINCs: 404-360-3  < 1%
Repr. 2, H361i d; Aquatic Acute 1, H400; Aquatic Chronic 1, H410

CAS: 64742-95-6  Solvent naphtha (petroleum), light arom.
ELINCs: 265-199-0  < 1%
Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336

CAS: 15625-89-5  2,2-bis(acryloyloxyethyl)butyl acrylate
ELINCs: 239-701-3  < 1%
Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317
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7.2 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 oxidizing agents.
  - Further information about storage conditions:
    Keep container tightly sealed.
    Protect from exposure to the light.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:
  
  1333-86-4 Carbon black
  WEL Short-term value: 7 mg/m³
  Long-term value: 3.5 mg/m³
  
  7727-43-7 Barium sulphate, natural
  WEL Long-term value: 10* 4** mg/m³
  *inhalable dust **respirable dust

- Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

- Personal protective equipment:
  - General protective and hygienic measures:
    Keep away from foodstuffs, beverages and feed.
    Immediately remove all soiled and contaminated clothing
    Wash hands before breaks and at the end of work.
    Avoid contact with the eyes and skin.
  - Respiratory protection:
    In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
  - 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 has 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
### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Fluid
    - **Colour:** According to product specification
    - **Odour:** Characteristic
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** > 100 °C
  - **Flash point:** 97 °C (Abel Pensky)
  - **Ignition temperature:** 235 °C
  - **Self-igniting:** Product is not self-igniting.
  - **Danger of explosion:** Product does not present an explosion hazard.
  - **Density:** Not determined.
  - **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
  - **Viscosity:**
    - **Dynamic:** Not determined.
    - **VOC (EC):** 0.83 %
  - **9.2 Other information**
    - No further relevant information available.

### SECTION 10: Stability and reactivity

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

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
  - **Primary irritant effect:**
    - **on the skin:** Irritant to skin and mucous membranes.
    - **on the eye:** Irritating effect.

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- Sensitization: Sensitization possible through skin contact.
- Additional toxicological information: The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Repr. 2

SECTION 12: Ecological information

- 12.1 Toxicity
  - Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- Ecotoxicological effects:
  - Remark: Toxic for fish
- Additional ecological information:
  - General notes: Also poisonous for fish and plankton in water bodies.
  - Toxic for aquatic organisms
  - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
  - Do not allow product to reach ground water, water course or sewage system.
  - Danger to drinking water if even small quantities leak into the ground.
- 12.5 Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.
- 12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
  - Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.
  - European waste catalogue 08 03 12: waste ink containing dangerous substances
- Uncleaned packaging:
  - Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

- 14.1 UN-Number
  - ADR, ADN, IMDG, IATA: Void
- 14.2 UN proper shipping name
  - ADR, ADN, IMDG, IATA: Void
- 14.3 Transport hazard class(es)
  - ADR, IMDG, IATA: Void
  - Class: Not restricted good
  - ADN/R Class: Void
- 14.4 Packing group
  - ADR, IMDG, IATA: Void
Trade name: Series 540

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  No further relevant information available.

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

**SECTION 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.

- **Relevant phrases**
  - H226 Flammable liquid and vapour.
  - H302 Harmful if swallowed.
  - H304 May be fatal if swallowed and enters airways.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H319 Causes serious eye irritation.
  - H335 May cause respiratory irritation.
  - H336 May cause drowsiness or dizziness.
  - H361 Suspected of damaging fertility or the unborn child.
  - H361d Suspected of damaging the unborn child.
  - H400 Very toxic to aquatic life.
  - H410 Very toxic to aquatic life with long lasting effects.
  - H411 Toxic to aquatic life with long lasting effects.
  - H412 Harmful to aquatic life with long lasting effects.

- **Department issuing MSDS:** Product safety department
- **Contact:** hse@printcolor.ch
- **Martin Otto**

**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
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- 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)
- VOC: Volatile Organic Compounds (USA, EU)
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
- Repr. 2: Reproductive toxicity, Hazard Category 2
- STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
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Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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