

# Safety Data Sheet acc. to OSHA HCS

Printing date 01/08/2019

## **1 Identification**

- · Product identifier
- · Trade name: Series 420
- · Article number: Series 420
- · 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.

#### · Label elements

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



- · Signal word Warning
- Hazard-determining components of labeling: titanium dioxide Carbon black
- · Hazard statements
- Suspected of causing cancer.
- **Precautionary statements** Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

- Wear protective gloves.
- IF exposed or concerned: Get medical advice/attention.
- Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- · NFPA ratings (scale 0 4)

 $0 \qquad 1 \qquad Health = 0 \\ Fire = 1 \\ Reactivity = 0$ 

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· HMIS-ratings (scale 0 - 4)

HEALTH 0	Health = 0
FIRE 1	Fire = 1
REACTIVITY 0	Reactivity = 0

# · Other hazards

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

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 13463-67-7	titanium dioxide	10-25%
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	2.5-10%
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	2.5-10%
CAS: 1333-86-4	Carbon black	1-2.5%

### 4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- After inhalation: Seek medical treatment in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · 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: Wear self-contained respiratory protective device.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.

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See Section 13 fo	r disposal information. Criteria for Chemicals	(
· PAC-1:		
CAS: 13463-67-7	titanium dioxide	30 mg/m
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
CAS: 1333-86-4	Carbon black	9 mg/m <sup>3</sup>
CAS: 124-68-5	2-amino-2-methylpropanol	17 mg/m
CAS: 121-44-8	triethylamine	1 ppm
CAS: 107-98-2	1-methoxy-2-propanol	100 ppm
CAS: 111-76-2	2-butoxyethanol	60 ppm
CAS: 122-99-6	2-Phenoxyethanol	1.5 ppm
· PAC-2:		
CAS: 13463-67-7	titanium dioxide	330 mg/m
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	1700* ppr
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
CAS: 1333-86-4	Carbon black	99 mg/m <sup>3</sup>
CAS: 124-68-5	2-amino-2-methylpropanol	190 mg/m
CAS: 121-44-8	triethylamine	170 ppm
CAS: 107-98-2	1-methoxy-2-propanol	160 ppm
CAS: 111-76-2	2-butoxyethanol	120 ppm
CAS: 122-99-6	2-Phenoxyethanol	16 ppm
PAC-3:		
CAS: 13463-67-7	titanium dioxide	2,000 mg/m
CAS: 34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
CAS: 1333-86-4	Carbon black	590 mg/m <sup>3</sup>
CAS: 124-68-5	2-amino-2-methylpropanol	570 mg/m³
CAS: 121-44-8	triethylamine	1,000 ppm
CAS: 107-98-2	1-methoxy-2-propanol	660 ppm
CAS: 111-76-2	2-butoxyethanol	700 ppm
CAS: 122-99-6	2-Phenoxyethanol	97 ppm

# 7 Handling and storage

· Handling:

- **Precautions for safe handling** Prevent formation of aerosols. No special measures required.
- · 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.
- Further information about storage conditions: Protect from frost.
- · Specific end use(s) No further relevant information available.

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8 Exp	oosure controls/personal protection
· Add	itional information about design of technical systems: No further data; see item 7.
• Con • Con The reco At th	trol parameters ponents with limit values that require monitoring at the workplace: following constituents are the only constituents of the product which have a PEL, TLV or other mmended exposure limit. is time, the remaining constituent has no known exposure limits.
CAS	: 34590-94-8 Dipropylene glycol monomethyl ether
PEL	Long-term value: 600 mg/m <sup>3</sup> , 100 ppm Skin
REL	Short-term value: 900 mg/m³, 150 ppm Long-term value: 600 mg/m³, 100 ppm Skin
TLV	Short-term value: 909 mg/m³, 150 ppm Long-term value: 606 mg/m³, 100 ppm Skin
CAS	: 112-34-5 2-(2-butoxyethoxy)ethanol
TLV	Long-term value: 67.5* mg/m <sup>3</sup> , 10* ppm *Inhalable fraction and vapor
CAS	: 1333-86-4 Carbon black
PEL	Long-term value: 3.5 mg/m <sup>3</sup>
REL	Long-term value: 3.5* mg/m <sup>3</sup> *0.1 in presence of PAHs;See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m <sup>3</sup> *inhalable fraction
<ul> <li>Exp</li> <li>Pers</li> <li>Gen The</li> <li>Brea</li> <li>Prot</li> <li>Mate qual subs be c</li> <li>Pene The be o</li> <li>For are s Natu</li> <li>Eye</li> </ul>	osure controls sonal protective equipment: eral protective and hygienic measures: usual precautionary measures for handling chemicals should be followed. etting equipment: Not required. ection of hands: Not required. erial of gloves selection of the suitable gloves does not only depend on the material, but also on further marks of ity and varies from manufacturer to manufacturer. As the product is a preparation of several stances, the resistance of the glove material can not be calculated in advance and has therefore to hecked prior to the application. etration time of glove material exact break trough time has to be found out by the manufacturer of the protective gloves and has to bserved. the permanent contact of a maximum of 15 minutes gloves made of the following materials suitable: iral rubber, NR protection:

Goggles recommended during refilling.

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9 Physical and chemical proper	ties	
· 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 at 20 °C (68 °F):	8	
· Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
· Flash point:	101 °C (213.8 °F) (Abel Pensky)	
· Flammability (solid, gaseous):	Not applicable.	
· 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.	
<ul> <li>Vapor pressure at 20 °C (68 °F):</li> </ul>	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
· Relative density	Not determined.	
· vapor density	Not determined.	
	Not determined.	
Water:	Fully miscible.	
· Partition coefficient (n-octanol/water	r): Not determined	
· Viscosity:	,	
Dynamic:	Not determined.	
Kinematic:	Not determined.	
VOC content:	40.7 %	
	351.1 g/l / 2.93 lb/gal	
<ul> <li>Other information</li> </ul>	No further relevant information available.	

# 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 No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

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<ul> <li>Information on to</li> <li>Acute toxicity:</li> <li>Primary irritant e</li> <li>on the skin: Irritat</li> <li>on the eye: Irritati</li> <li>Sensitization: See</li> <li>Additional toxico</li> <li>The product show</li> <li>preparations:</li> <li>Irritant</li> </ul>	ffect: nt to skin and mucous membranes. ing effect. Insitization possible through skin contact. Inogical information: ws the following dangers according to internally approved calculation metho	ods for
· Carcinogenic cat	legories	
· IARC (Internation	nal Agency for Research on Cancer)	
CAS: 13463-67-7	titanium dioxide	2B
CAS: 1333-86-4	Carbon black	2B
CAS: 111-76-2	2-butoxyethanol	3
· NTP (National To	oxicology Program)	

None of the ingredients is listed.

#### 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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Harmful to aquatic organisms
- Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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

· Other adverse effects 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.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
<ul> <li>· UN proper shipping name</li> <li>· DOT, ADR, ADN, IMDG, IATA</li> </ul>	Void
· Transport hazard class(es)	
· DOT, ADR, ADN · Class	Void
<ul> <li>IMDG, IATA</li> <li>Class</li> </ul>	Void Not restricted good
<ul> <li>Packing group</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Void
<ul> <li>Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
· Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex MARPOL73/78 and the IBC Code</li> </ul>	Il of Not applicable.
· UN "Model Regulation":	Void

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (e)	stremely hazardous substances):
None of the ing	redient is listed.
· Section 313 (S	pecific toxic chemical listings):
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol
CAS: 121-44-8	triethylamine
CAS: 111-76-2	2-butoxyethanol
CAS: 122-99-6	2-Phenoxyethanol
· TSCA (Toxic S	ubstances Control Act):
All ingredients a	re listed.
· Proposition 65	
<ul> <li>Chemicals kno</li> </ul>	wn to cause cancer:
CAS: 13463-67	-7 titanium dioxide
CAS: 1333-86-4	Carbon black
· Chemicals knc	wn to cause reproductive toxicity for females:
None of the ing	redients is listed.
· Chemicals kno	wn to cause reproductive toxicity for males:
None of the ing	redients is listed.
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· Chemicals known to cause developmental toxic	itv•
onemicals known to cause developmental toxic	··y·

None of the ingredients is listed.

## · Cancerogenity categories

#### · EPA (Environmental Protection Agency)

CAS: 111-76-2 2-butoxyethanol

• TLV (Threshold Limit Value established by ACGIH)

CAS: 13463-67-7 titanium dioxide

CAS: 1333-86-4 Carbon black

CAS: 121-44-8 triethylamine

CAS: 111-76-2 2-butoxyethanol

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

## CAS: 13463-67-7 titanium dioxide

CAS: 1333-86-4 Carbon black

#### · GHS label elements

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

Hazard pictograms



#### · Signal word Warning

- Hazard-determining components of labeling: titanium dioxide Carbon black
- · Hazard statements
- Suspected of causing cancer.
- Precautionary statements
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Wear protective gloves.
  IF exposed or concerned: Get medical advice/attention.
  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)

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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 Carc. 2: Carcinogenicity – Category 2

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