Safety Data Sheet
acc. to OSHA HCS

Printing date 12/15/2022 Reviewed on 12/15/2022

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

Carcinogenicity 2	H351 Suspected of causing cancer. Route of exposure: Inhalation.

GHS07

Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 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)-phosphine oxide
2-propenoic acid, reaction products with pentaerythritol
oxybis(methyl-2,1-ethanediyl) diacrylate
2-(2-Ethoxyethoxy)ethylacrylat

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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. Route of exposure: Inhalation.

· **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.
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.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 1
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *2
Fire = 1
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: 13048-33-4	hexamethylene diacrylate	≥10-≤50%
CAS: 5888-33-5	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	≥10-<20%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	2.5-10%

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CAS: 84434-11-7	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	2.5-10%
CAS: 15793-73-4	40-02314 Lysopac Orange 3420C	1-2.5%
CAS: 108-32-7	propylene carbonate	≥1-≤2.5%
CAS: 1333-86-4	Carbon black	1-2.5%
CAS: 162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	≥0.1-<1%
CAS: 1245638-61-2	2-propenoic acid, reaction products with pentaerythritol	≥0.1-<1%
CAS: 57472-68-1	oxybis(methyl-2,1-ethanediyl) diacrylate	≥0.1-<1%
CAS: 7328-17-8	2-(2-Ethoxyethoxy)ethylacrylat	≥0.1-<0.5%
CAS: 52408-84-1	glycerol, propoxylated, esters with acrylic acid	≥0.1-<0.5%
CAS: 55818-57-0	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	≥0.1-<0.5%
CAS: 4394-85-8	4-morpholinecarbaldehyde	≥0.1-<0.5%

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.

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See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
CAS: 13048-33-4	hexamethylene diacrylate	3 mg/m³
CAS: 13463-67-7	titanium dioxide	30 mg/m³
CAS: 108-32-7	propylene carbonate	34 mg/m³
CAS: 1333-86-4	Carbon black	9 mg/m³
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m³
CAS: 63148-62-9	Polydimethylsiloxan	65 mg/m³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 120-51-4	Benzyl benzoate	5.7 mg/m³
CAS: 546-93-0	Magnesite	45 mg/m³
CAS: 97-88-1	n-butyl methacrylate	19 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	0.075 mg/m³
CAS: 107-98-2	1-methoxy-2-propanol	100 ppm
CAS: 111-76-2	2-butoxyethanol	60 ppm
CAS: 150-76-5	mequinol	15 mg/m³
CAS: 80-62-6	methyl methacrylate	17 ppm
CAS: 7447-41-8	lithium chloride	2.3 mg/m³
CAS: 79-10-7	acrylic acid	1.5 ppm
CAS: 110-82-7	cyclohexane	300 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	50 ppm

· **PAC-2:**		
CAS: 13048-33-4	hexamethylene diacrylate	170 mg/m³
CAS: 13463-67-7	titanium dioxide	330 mg/m³
CAS: 108-32-7	propylene carbonate	370 mg/m³
CAS: 1333-86-4	Carbon black	99 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: 546-93-0	Magnesite	260 mg/m³
CAS: 97-88-1	n-butyl methacrylate	210 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	33 mg/m³
CAS: 107-98-2	1-methoxy-2-propanol	160 ppm
CAS: 111-76-2	2-butoxyethanol	120 ppm
CAS: 150-76-5	mequinol	49 mg/m³
CAS: 80-62-6	methyl methacrylate	120 ppm
CAS: 7447-41-8	lithium chloride	25 mg/m³
CAS: 79-10-7	acrylic acid	46 ppm
CAS: 110-82-7	cyclohexane	1700* ppm
CAS: 70657-70-4	2-methoxypropyl acetate	1,000 ppm

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· **PAC-3:**		
CAS: 13048-33-4	hexamethylene diacrylate	990 mg/m³
CAS: 13463-67-7	titanium dioxide	2,000 mg/m³
CAS: 108-32-7	propylene carbonate	2,200 mg/m³
CAS: 1333-86-4	Carbon black	590 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	5000* ppm
CAS: 120-51-4	Benzyl benzoate	380 mg/m³
CAS: 546-93-0	Magnesite	1,600 mg/m³
CAS: 97-88-1	n-butyl methacrylate	1,300 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	200 mg/m³
CAS: 107-98-2	1-methoxy-2-propanol	660 ppm
CAS: 111-76-2	2-butoxyethanol	700 ppm
CAS: 150-76-5	mequinol	320 mg/m³
CAS: 80-62-6	methyl methacrylate	570 ppm
CAS: 7447-41-8	lithium chloride	150 mg/m³
CAS: 79-10-7	acrylic acid	180 ppm
CAS: 110-82-7	cyclohexane	10000** ppm
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.
· **Storage class:** 10
· **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.

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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: 15793-73-4 40-02314 Lysopac Orange 3420C	
ACGIH TWA	Ceiling limit value: 5 mg/m³
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, A3

· **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 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
· **Eye protection:**

Tightly sealed goggles

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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):**	1.95 g/cm³ (16.27 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.
· **Solvent separation test**	
VOC content:	≥0.35-<0.38 % ≥7.4-≤10.4 g/l / ≥0.06-≤0.09 lb/gal
VOC (EC)	≥1.72-<1.9 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.

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· **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: 13463-67-7	titanium dioxide	2B
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: 128-37-0	Butylated hydroxytoluene	3
CAS: 14808-60-7	Quartz (SiO2)	1
CAS: 111-76-2	2-butoxyethanol	3
CAS: 80-62-6	methyl methacrylate	3
CAS: 79-10-7	acrylic acid	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.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish

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· **Additional ecological information:**
· **General notes:**
Harmful to aquatic organisms
Water hazard class 2 (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.
· **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.

14 Transport information

· **UN-Number**	
· **DOT**	Void
· **ADR, IMDG, IATA**	UN3082
· **UN proper shipping name**	
· **DOT**	Void
· **ADR**	Not restricted good </= 5 Kg/L according to SV 375 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
· **IMDG**	Not restricted good </= 5 Kg/L according to 2.10.2.7 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), MARINE POLLUTANT
· **IATA**	Not restricted good </= 5 Kg/L according to SP A197 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hexamethylene diacrylate, exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	Void

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· **ADR**

· **Class**	9 Miscellaneous dangerous substances and articles
· **Label**	9

· **IMDG, IATA**

· **Class**	9 Miscellaneous dangerous substances and articles Not restricted good
· **Label**	9
· **Packing group**	
· **DOT**	Void
· **ADR, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Yes Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **Special marking (IATA):**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Miscellaneous dangerous substances and articles
· **Hazard identification number (Kemler code):**	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**	
· **Excepted 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
· **Excepted 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

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15 Regulatory information

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

· **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: 80-62-6	methyl methacrylate
CAS: 79-10-7	acrylic acid
CAS: 110-82-7	cyclohexane

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

CAS: 80-62-6	methyl methacrylate
CAS: 79-10-7	acrylic acid

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 1333-86-4	Carbon black

· **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.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

CAS: 111-76-2	2-butoxyethanol	NL
CAS: 80-62-6	methyl methacrylate	E, NL
CAS: 110-82-7	cyclohexane	I

· **TLV (Threshold Limit Value)**

CAS: 13463-67-7	titanium dioxide	A4
CAS: 14807-96-6	Talc (Mg3H2(SiO3)4)	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 128-37-0	Butylated hydroxytoluene	A4
CAS: 14808-60-7	Quartz (SiO2)	A2
CAS: 111-76-2	2-butoxyethanol	A3
CAS: 80-62-6	methyl methacrylate	A4
CAS: 79-10-7	acrylic acid	A4

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

CAS: 13463-67-7	titanium dioxide
CAS: 1333-86-4	Carbon black

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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
2-propenoic acid, reaction products with pentaerythritol
oxybis(methyl-2,1-ethanediyl) diacrylate
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. Route of exposure: Inhalation.
· **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.
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

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printcolor high performance inks

Safety Data Sheet
acc. to OSHA HCS

Printing date 12/15/2022 Reviewed on 12/15/2022

Trade name: Series 552

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· **Contact:** hse@printcolor.ch
· **Date of preparation / last revision** 12/15/2022
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international 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
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 Irritation 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2