Safety Data Sheet
acc. to OSHA HCS

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

1 Identification

· **Product identifier**

· **Trade name: Series 540**

· **Article number: Series** 540

· **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.
Repr. 2	H361	Suspected of damaging fertility or the unborn child.

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:**
2-hydroxyethyl methacrylate
titanium dioxide
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
hexamethylene diacrylate
Dipentaerythritolhexaacrylat
tripropylene glycol diacrylate
glycerol, propoxylated, esters with acrylic acid
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
propylidynetrimethanol, ethoxylated, esters with acrylic acid

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· **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapours.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection.
Use personal protective equipment as required.
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: 868-77-9	2-hydroxyethyl methacrylate	10-25%
CAS: 327622-75-3	Fatty acids, C18-unsatd., dimers, polymers with acrylic acid and 1,3,5-tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	10-25%
CAS: 5888-33-5	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	2.5-10%
CAS: 13463-67-7	titanium dioxide	2.5-10%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	2.5-10%
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide	2.5-10%
CAS: 13048-33-4	hexamethylene diacrylate	2.5-10%

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CAS: 29570-58-9	Dipentaerythritolhexaacrylat	2.5-10%
CAS: 7727-43-7	barium sulphate, natural	2.5-10%
CAS: 1333-86-4	Carbon black	1-2.5%
CAS: 63225-53-6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate	1-2.5%
CAS: 40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	1-2.5%
CAS: 42978-66-5	tripropylene glycol diacrylate	<1%
CAS: 52408-84-1	glycerol, propoxylated, esters with acrylic acid	<0.5%
CAS: 55818-57-0	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	<0.5%
CAS: 28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid	<0.5%

4 First-aid measures

· **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.
· **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:**
Inform respective authorities in case of seepage into water course or sewage system.
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).
Ensure adequate ventilation.
· **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**

· **PAC-1:**		
CAS: 868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m³

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CAS: 13463-67-7	titanium dioxide	30 mg/m³
CAS: 13048-33-4	hexamethylene diacrylate	3 mg/m³
CAS: 7727-43-7	barium sulphate, natural	15 mg/m³
CAS: 1333-86-4	Carbon black	9 mg/m³
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m³
CAS: 21645-51-2	Aluminiumhydroxid	8.7 mg/m³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3.6 mg/m³
CAS: 1344-28-1	aluminium oxide	15 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	0.075 mg/m³
CAS: 79-10-7	acrylic acid	1.5 ppm
CAS: 1314-23-4	zirconium oxide	14 mg/m³
CAS: 122-99-6	2-Phenoxyethanol	1.5 ppm
CAS: 7664-38-2	phosphoric acid	3 mg/m³
CAS: 97-88-1	n-butyl methacrylate	19 mg/m³
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

· **PAC-2:**

CAS: 868-77-9	2-hydroxyethyl methacrylate	21 mg/m³
CAS: 13463-67-7	titanium dioxide	330 mg/m³
CAS: 13048-33-4	hexamethylene diacrylate	170 mg/m³
CAS: 7727-43-7	barium sulphate, natural	170 mg/m³
CAS: 1333-86-4	Carbon black	99 mg/m³
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m³
CAS: 21645-51-2	Aluminiumhydroxid	73 mg/m³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	39 mg/m³
CAS: 1344-28-1	aluminium oxide	170 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	33 mg/m³
CAS: 79-10-7	acrylic acid	46 ppm
CAS: 1314-23-4	zirconium oxide	110 mg/m³
CAS: 122-99-6	2-Phenoxyethanol	16 ppm
CAS: 7664-38-2	phosphoric acid	30 mg/m³
CAS: 97-88-1	n-butyl methacrylate	210 mg/m³
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

· **PAC-3:**

CAS: 868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m³
CAS: 13463-67-7	titanium dioxide	2,000 mg/m³
CAS: 13048-33-4	hexamethylene diacrylate	990 mg/m³
CAS: 7727-43-7	barium sulphate, natural	990 mg/m³
CAS: 1333-86-4	Carbon black	590 mg/m³
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m³
CAS: 21645-51-2	Aluminiumhydroxid	440 mg/m³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm

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CAS: 96-48-0	4-Hydroxybutanoic acid lactone	310 mg/m³
CAS: 1344-28-1	aluminium oxide	990 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	200 mg/m³
CAS: 79-10-7	acrylic acid	180 ppm
CAS: 1314-23-4	zirconium oxide	680 mg/m³
CAS: 122-99-6	2-Phenoxyethanol	97 ppm
CAS: 7664-38-2	phosphoric acid	150 mg/m³
CAS: 97-88-1	n-butyl methacrylate	1,300 mg/m³
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

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **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 oxidizing agents.
· **Further information about storage conditions:**
Keep receptacle tightly sealed.
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: 7727-43-7 barium sulphate, natural	
PEL	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction
TLV	Long-term value: 5* mg/m³ *inhalable fraction; E
CAS: 1333-86-4 Carbon black	
PEL	Long-term value: 3.5 mg/m³

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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

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

· **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.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **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

9 Physical and chemical properties

· **Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**
Form: Fluid
Color: According to product specification
· **Odor:** Characteristic

· **Change in condition**
Melting point/Melting range: Undetermined.
Boiling point/Boiling range: > 100 °C (>212 °F)

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· **Flash point:**	97 °C (206.6 °F) (Abel Pensky)
· **Ignition temperature:**	235 °C (455 °F)
· **Auto igniting:**	Product is not selfigniting.
· **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 content:	5.4 % 7.1 g/l / 0.06 lb/gal
· **Other information**	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**
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: 13463-67-7	titanium dioxide	2B
CAS: 1333-86-4	Carbon black	2B
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3
CAS: 1330-20-7	xylene	3
CAS: 14808-60-7	Quartz (SiO2)	1
CAS: 79-10-7	acrylic acid	3

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CAS: 128-37-0	Butylated hydroxytoluene	3
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.
· **Ecotoxical 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 (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, ADR, ADN, IMDG, IATA** Void

· **UN proper shipping name**
· **DOT, ADR, ADN, IMDG, IATA** Void

· **Transport hazard class(es)**

· **DOT, ADR, ADN**
· **Class** Void

· **IMDG, IATA**
· **Class** Void
Not restricted good

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· **Packing group** · **DOT, ADR, IMDG, IATA**	Void
· **Environmental hazards:** · **Marine pollutant:**	No
· **Special precautions for user**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **UN "Model Regulation":**	Void

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: 7727-43-7	barium sulphate, natural
CAS: 1344-28-1	aluminium oxide
CAS: 79-10-7	acrylic acid
CAS: 122-99-6	2-Phenoxyethanol
CAS: 7664-38-2	phosphoric acid
CAS: 80-62-6	methyl methacrylate

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

CAS: 868-77-9	2-hydroxyethyl methacrylate
CAS: 5888-33-5	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
CAS: 14807-96-6	Talc (Mg3H2(SiO3)4)
CAS: 13463-67-7	titanium dioxide
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone
CAS: 75980-60-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
CAS: 13048-33-4	hexamethylene diacrylate
CAS: 29570-58-9	Dipentaerythritolhexaacrylat
CAS: 60506-81-2	Dipnetaerythritol Pentaacrylate Esters
CAS: 7727-43-7	barium sulphate, natural
CAS: 1333-86-4	Carbon black
CAS: 63225-53-6	2-[[(butylamino)carbonyl]oxy]ethyl acrylate
CAS: 7631-86-9	silicon dioxide, chemically prepared
CAS: 40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate
CAS: 42978-66-5	tripropylene glycol diacrylate
CAS: 24599-21-1	2-(phosphonooxy)ethyl methacrylate
CAS: 32435-46-4	bis(methacryloyloxyethyl) hydrogen phosphate
CAS: 21645-51-2	Aluminiumhydroxid
CAS: 108-65-6	2-methoxy-1-methylethyl acetate
CAS: 52408-84-1	glycerol, propoxylated, esters with acrylic acid
CAS: 55818-57-0	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

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CAS: 4394-85-8	4-morpholinecarbaldehyde
CAS: 28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid
CAS: 96-48-0	4-Hydroxybutanoic acid lactone
CAS: 1344-28-1	aluminium oxide
CAS: 8002-74-2	Paraffin waxes and Hydrocarbon waxes
CAS: 14808-60-7	Quartz (SiO2)
CAS: 79-10-7	acrylic acid
CAS: 1314-23-4	zirconium oxide
CAS: 128-37-0	Butylated hydroxytoluene

· **TSCA new (21st Century Act) (Substances not listed)**

CAS: 327622-75-3	Fatty acids, C18-unsatd., dimers, polymers with acrylic acid and 1,3,5-tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
CAS: 28961-43-5	propylidynetrimethanol, ethoxylated, esters with acrylic acid

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 13463-67-7	titanium dioxide
CAS: 1333-86-4	Carbon black
CAS: 14808-60-7	Quartz (SiO2)

· **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: 7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
CAS: 1330-20-7	xylene	I
CAS: 80-62-6	methyl methacrylate	E, NL

· **TLV (Threshold Limit Value established by ACGIH)**

CAS: 14807-96-6	Talc (Mg3H2(SiO3)4)	A4
CAS: 13463-67-7	titanium dioxide	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 1330-20-7	xylene	A4
CAS: 1344-28-1	aluminium oxide	A4
CAS: 14808-60-7	Quartz (SiO2)	A2
CAS: 79-10-7	acrylic acid	A4
CAS: 1314-23-4	zirconium oxide	A4
CAS: 128-37-0	Butylated hydroxytoluene	A4
CAS: 80-62-6	methyl methacrylate	A4

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

CAS: 13463-67-7	titanium dioxide
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).

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· **Hazard pictograms**

GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labeling:**
2-hydroxyethyl methacrylate
titanium dioxide
diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide
hexamethylene diacrylate
Dipentaerythritolhexaacrylat
tripropylene glycol diacrylate
glycerol, propoxylated, esters with acrylic acid
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
propylidynetrimethanol, ethoxylated, esters with acrylic acid

· **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing vapours.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection.
Use personal protective equipment as required.
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
· **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

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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
Repr. 2: Reproductive toxicity – Category 2