printcolor high performance inks

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/24/2024 Reviewed on 07/24/2024

1 Identification

· **Product identifier**

· **Trade name: Series 660**

· **Article number: Series** 660-D

· **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**


GHS02 Flame

Flammable Liquids 3	H226 Flammable liquid and vapor.


GHS08 Health hazard

Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.


GHS05 Corrosion

Eye Damage 1	H318 Causes serious eye damage.


GHS07

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**


GHS02 GHS05 GHS07 GHS08

(Contd. on page 2)

(Contd. of page 1)

· **Signal word** Danger

· **Hazard-determining components of labeling:**
butyl glycollate
Hydrocarbon, C10, aromatics, <1% naphthalene
4-morpholinecarbaldehyde
ethylbenzene
Polyurethane Resin
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
Aromatic polyisocyanate
1-dodecycl-2-pyrrolidone

· **Hazard statements**
Flammable liquid and vapor.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May be fatal if swallowed and enters airways.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 2
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *3
Fire = 2
Reactivity = 0

(Contd. on page 3)

(Contd. of page 2)

· **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: 108-94-1	cyclohexanone	10-25%
CAS: 7397-62-8	butyl glycollate	10-25%
CAS: 1189173-42-9	Hydrocarbon, C10, aromatics, <1% naphthalene	2.5-10%
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	≥3-<10%
CAS: 123-42-2	diacetone alcohol, technical	≥2.5-<10%
CAS: 1330-20-7	xylene	≥2.5-<10%
CAS: 4394-85-8	4-morpholinecarbaldehyde	≥1-≤10%
	Polyurethane Resin	2.5-10%
CAS: 67-63-0	propan-2-ol	1-2.5%
CAS: 107-98-2	1-methoxy-2-propanol	1-2.5%
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	≥1-≤2.5%
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	≥0.1-<1%
CAS: 100-41-4	ethylbenzene	≥0.1-<0.5%
CAS: 53317-61-6	Aromatic polyisocyanate	≥0.1-<0.5%
CAS: 2687-96-9	1-dodecycl-2-pyrrolidone	≥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:**
In case of unconsciousness place patient stably in side position for transportation.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
· **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. Then consult a doctor.
· **After swallowing:** Immediately call a 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.

US

(Contd. on page 4)

(Contd. of page 3)

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.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **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**
Wear protective equipment. Keep unprotected persons away.
Keep away from ignition sources
· **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).
Use neutralizing agent.
Dispose contaminated material as waste according to section 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**

· **PAC-1:**		
CAS: 108-94-1	cyclohexanone	60 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3.6 mg/m³
CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 107-98-2	1-methoxy-2-propanol	100 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m³
CAS: 9002-84-0	Polytetrafluoroethylene	12 mg/m³
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	90 mg/m³
CAS: 78-83-1	butanol	150 ppm
CAS: 122-99-6	2-phenoxyethanol	1.5 ppm
CAS: 100-41-4	ethylbenzene	33 ppm
CAS: 95-63-6	1,2,4-trimethylbenzene	140 ppm
CAS: 1344-28-1	aluminium oxide	15 mg/m³
CAS: 7447-41-8	lithium chloride	2.3 mg/m³
CAS: 141-78-6	ethyl acetate	1,200 ppm
CAS: 91-20-3	naphthalene	15 ppm
CAS: 7664-38-2	phosphoric acid	3 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	0.075 mg/m³
CAS: 108-88-3	toluene	67 ppm
CAS: 26471-62-5	m-tolylidene diisocyanate	0.02 ppm

(Contd. on page 5)

Trade name: Series 660

(Contd. of page 4)

CAS: 556-67-2	octamethylcyclotetrasiloxane	30 ppm
CAS: 98-82-8	Cumene	50 ppm

· **PAC-2:**

CAS: 108-94-1	cyclohexanone	830 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	39 mg/m³
CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 107-98-2	1-methoxy-2-propanol	160 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	200 ppm
CAS: 9002-84-0	Polytetrafluoroethylene	130 mg/m³
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	990 mg/m³
CAS: 78-83-1	butanol	1,300 ppm
CAS: 122-99-6	2-phenoxyethanol	16 ppm
CAS: 100-41-4	ethylbenzene	1100* ppm
CAS: 95-63-6	1,2,4-trimethylbenzene	360 ppm
CAS: 1344-28-1	aluminium oxide	41 ppm
CAS: 7447-41-8	lithium chloride	17 mg/m3
CAS: 141-78-6	ethyl acetate	1,700 ppm
CAS: 91-20-3	naphthalene	83 ppm
CAS: 7664-38-2	phosphoric acid	30 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	8.3 mg/m3
CAS: 108-88-3	toluene	560 ppm
CAS: 26471-62-5	m-tolylidene diisocyanate	0.083 ppm
CAS: 556-67-2	octamethylcyclotetrasiloxane	68 ppm
CAS: 98-82-8	Cumene	300 ppm

· **PAC-3:**

CAS: 108-94-1	cyclohexanone	5000* ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	310 mg/m³
CAS: 67-63-0	propan-2-ol	12000** ppm
CAS: 107-98-2	1-methoxy-2-propanol	660 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	1200 ppm
CAS: 9002-84-0	Polytetrafluoroethylene	790 mg/m³
CAS: 25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	5,900 mg/m³
CAS: 78-83-1	butanol	8000* ppm
CAS: 122-99-6	2-phenoxyethanol	97 ppm
CAS: 100-41-4	ethylbenzene	1800* ppm
CAS: 95-63-6	1,2,4-trimethylbenzene	480 ppm
CAS: 1344-28-1	aluminium oxide	240 ppm
CAS: 7447-41-8	lithium chloride	100 mg/m3
CAS: 141-78-6	ethyl acetate	10000** ppm

(Contd. on page 6)

(Contd. of page 5)

CAS: 91-20-3	naphthalene	500 ppm
CAS: 7664-38-2	phosphoric acid	150 mg/m³
CAS: 14808-60-7	Quartz (SiO2)	50 mg/m3
CAS: 108-88-3	toluene	3700* ppm
CAS: 26471-62-5	m-tolylidene diisocyanate	0.51 ppm
CAS: 556-67-2	octamethylcyclotetrasiloxane	130 ppm
CAS: 98-82-8	Cumene	730 ppm

7 Handling and storage

· **Handling:**
· **Precautions for safe handling** Open and handle receptacle with care.
· **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:** Store in a cool location.
· **Information about storage in one common storage facility:** Store away from foodstuffs.
· **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
· **Storage class:** 3
· **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 section 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: 108-94-1 cyclohexanone	
PEL	Long-term value: 200 mg/m³, 50 ppm
REL	Long-term value: 100 mg/m³, 25 ppm Skin
TLV	Short-term value: 50 ppm Long-term value: 20 ppm Skin, BEI, A3
CAS: 123-42-2 diacetone alcohol, technical	
PEL	Long-term value: 240 mg/m³, 50 ppm
REL	Long-term value: 240 mg/m³, 50 ppm
TLV	Long-term value: 50 ppm
CAS: 1330-20-7 xylene	
PEL	Long-term value: 435 mg/m³, 100 ppm

(Contd. on page 7)

(Contd. of page 6)

REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm BEI, A4
CAS: 67-63-0 propan-2-ol	
PEL	Long-term value: 980 mg/m³, 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4
CAS: 107-98-2 1-methoxy-2-propanol	
REL	Short-term value: 540 mg/m³, 150 ppm Long-term value: 360 mg/m³, 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm A4
CAS: 108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm
CAS: 100-41-4 ethylbenzene	
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 ppm OTO, BEI, A3

· **Ingredients with biological limit values:**

CAS: 108-94-1 cyclohexanone	
BEI	80 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative) 8 mg/L Medium: urine Time: end of shift Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)
CAS: 1330-20-7 xylene	
BEI	1.5 g/g creatinine Medium: urine Time: end of shift Parameter: Methylhippuric acids
CAS: 67-63-0 propan-2-ol	
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

(Contd. on page 8)

(Contd. of page 7)

CAS: 100-41-4 ethylbenzene	
BEI	0.15 g/g creatinine Medium: urine Time: end of shift at end of workweek Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

· **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.
Store protective clothing separately.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes and skin.
Pregnant women should strictly avoid inhalation or skin contact.
· **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:**
Butyl rubber, BR
· **Eye protection:**

Goggles recommended during refilling.

(Contd. on page 9)

(Contd. of page 8)

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Viscous
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:	156 °C (312.8 °F)
· **Flash point:**	44 °C (111.2 °F) (Abel Pensky)
· **Flammability (solid, gaseous):**	Flammable.
· **Auto igniting:**	405 °C (761 °F)
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Explosion limits:**	
Lower:	1.3 Vol %
Upper:	9.4 Vol %
· **Vapor pressure at 20 °C (68 °F):**	4 hPa (3 mm Hg)
· **Density at 20 °C (68 °F):**	1.06 g/cm³ (8.85 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 at 20 °C (68 °F):	5,000 mPas
Kinematic:	Not determined.
· **Solvent separation test**	
VOC content:	≥56.63-<57.45 % 608.9 g/l / 5.08 lb/gal
VOC (EC)	≥56.63-<57.45 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

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

(Contd. on page 10)

printcolor high performance inks

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/24/2024 Reviewed on 07/24/2024

Trade name: Series 660

(Contd. of page 9)

· **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.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
CAS: 108-94-1 cyclohexanone		
Oral	LD50	1,620 mg/kg (rat)
Dermal	LD50	948 mg/kg (rabbit)
Inhalative	LC50/4 h	8,000 mg/l (rat)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Strong irritant with the danger of severe eye injury.
· **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: 108-94-1	cyclohexanone	3
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3
CAS: 1330-20-7	xylene	3
CAS: 67-63-0	propan-2-ol	3
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 9002-84-0	Polytetrafluoroethylene	3
CAS: 100-41-4	ethylbenzene	2B
CAS: 91-20-3	naphthalene	2B
CAS: 14808-60-7	Quartz (SiO2)	1
CAS: 108-88-3	toluene	3
CAS: 26471-62-5	m-tolylidene diisocyanate	2B
CAS: 98-82-8	Cumene	2B

· **NTP (National Toxicology Program)**		
CAS: 91-20-3	naphthalene	R
CAS: 14808-60-7	Quartz (SiO2)	K
CAS: 26471-62-5	m-tolylidene diisocyanate	R
CAS: 98-82-8	Cumene	R

(Contd. on page 11)

(Contd. of page 10)

· **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.
· **Additional ecological information:**
· **General notes:**
Water hazard class 2 (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
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, IATA**	UN1210
· **ADR, IMDG**	Void
· **UN proper shipping name**	
· **DOT**	Printing ink
· **ADR, IMDG**	Void
· **IATA**	PRINTING INK
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	3 Flammable liquids

(Contd. on page 12)

(Contd. of page 11)

· **Label**	3
· **ADR**	
· **Class**	Void Kein Gefahrgut <450l gemäss ADR 2.2.3.1.5 free
· **ADN/R Class:**	Void
· **IMDG**	
· **Class**	Void Not restricted good <450l according to IMDG 2.3.2.5
· **IATA**	

· **Class**	3 Flammable liquids
· **Label**	3
· **Packing group**	
· **DOT, IATA**	III
· **ADR, IMDG**	Void
· **Environmental hazards:**	Not applicable.
· **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**
No further relevant information available.
· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 67-63-0	propan-2-ol
CAS: 122-99-6	2-phenoxyethanol
CAS: 100-41-4	ethylbenzene
CAS: 95-63-6	1,2,4-trimethylbenzene
CAS: 1344-28-1	aluminium oxide
CAS: 91-20-3	naphthalene
CAS: 7664-38-2	phosphoric acid
CAS: 108-88-3	toluene
CAS: 26471-62-5	m-tolylidene diisocyanate
CAS: 98-82-8	Cumene

(Contd. on page 13)

Trade name: Series 660

(Contd. of page 12)

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**

CAS: 100-41-4	ethylbenzene
CAS: 91-20-3	naphthalene
CAS: 108-88-3	toluene
CAS: 98-82-8	Cumene

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 100-41-4	ethylbenzene
CAS: 91-20-3	naphthalene

· **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.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

CAS: 1330-20-7	xylene	I
CAS: 100-41-4	ethylbenzene	D
CAS: 95-63-6	1,2,4-trimethylbenzene	II
CAS: 91-20-3	naphthalene	C, CBD
CAS: 108-88-3	toluene	II
CAS: 98-82-8	Cumene	D, CBD

· **TLV (Threshold Limit Value)**

CAS: 108-94-1	cyclohexanone	A3
CAS: 1330-20-7	xylene	A4
CAS: 67-63-0	propan-2-ol	A4
CAS: 100-41-4	ethylbenzene	A3
CAS: 1344-28-1	aluminium oxide	A4
CAS: 91-20-3	naphthalene	A4
CAS: 14808-60-7	Quartz (SiO2)	A2
CAS: 108-88-3	toluene	A4
CAS: 26471-62-5	m-tolylidene diisocyanate	(A4)

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

CAS: 14808-60-7	Quartz (SiO2)

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

GHS02 GHS05 GHS07 GHS08

(Contd. on page 14)

(Contd. of page 13)

· **Signal word** Danger

· **Hazard-determining components of labeling:**
butyl glycollate
Hydrocarbon, C10, aromatics, <1% naphthalene
4-morpholinecarbaldehyde
ethylbenzene
Polyurethane Resin
reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
Aromatic polyisocyanate
1-dodecycl-2-pyrrolidone

· **Hazard statements**
Flammable liquid and vapor.
Causes serious eye damage.
May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May be fatal if swallowed and enters airways.

· **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Immediately call a poison center/doctor.
Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
In case of fire: Use CO2, powder or water spray to extinguish.
Store in a well-ventilated place. Keep cool.
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** 07/24/2024 / 4

(Contd. on page 15)

printcolor high performance inks

Safety Data Sheet
acc. to OSHA HCS

Printing date 07/24/2024 Reviewed on 07/24/2024

Trade name: Series 660

(Contd. of page 14)

· **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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
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
BEI: Biological Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Aspiration Hazard 1: Aspiration hazard – Category 1