

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/25/2022

Reviewed on 05/25/2022

1 Identification

- **Product identifier**
- **Trade name: Series 792**
- **Article number: Series 792**
- **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. Route of exposure: Inhalation.
Toxic to Reproduction 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

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**



GHS02 GHS07 GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**
Carbon black

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1-dodecyl-2-pyrrolidone

Hazard statements

Flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer. Route of exposure: Inhalation.
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.
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
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
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.
If eye irritation persists: 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 = 2
Fire = 2
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *2
Fire = 2
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: 54839-24-6	2-ethoxy-1-methylethyl acetate	≥10-<20%
CAS: 7727-43-7	barium sulphate, natural	≥2.5-≤10%

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CAS: 1333-86-4	Carbon black	2.5-10%
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	1-2.5%
CAS: 2687-96-9	1-dodecyl-2-pyrrolidone	≥0.1-<0.5%
CAS: 100-41-4	ethylbenzene	≥0.1-<0.5%
CAS: 7397-62-8	butyl glycollate	≥0.1-<0.5%
CAS: 77-99-6	propylidynetrimethanol	≥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, sand, extinguishing powder. Do not use water.
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:** No special measures required.
- **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.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
CAS: 13463-67-7	titanium dioxide	30 mg/m ³
CAS: 7727-43-7	barium sulphate, natural	15 mg/m ³

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CAS: 1333-86-4	Carbon black	9 mg/m ³
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3.6 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
CAS: 122-99-6	2-Phenoxyethanol	1.5 ppm
CAS: 100-41-4	ethylbenzene	33 ppm
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	150 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 64-17-5	ethanol	1,800 ppm
CAS: 124-68-5	2-amino-2-methylpropanol	17 mg/m ³
CAS: 108-10-1	4-methylpentan-2-one	75 ppm
CAS: 7664-38-2	phosphoric acid	3 mg/m ³
CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 108-88-3	toluene	67 ppm

PAC-2:

CAS: 13463-67-7	titanium dioxide	330 mg/m ³
CAS: 7727-43-7	barium sulphate, natural	170 mg/m ³
CAS: 1333-86-4	Carbon black	99 mg/m ³
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	39 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
CAS: 122-99-6	2-Phenoxyethanol	16 ppm
CAS: 100-41-4	ethylbenzene	1100* ppm
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	350 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 64-17-5	ethanol	3300* ppm
CAS: 124-68-5	2-amino-2-methylpropanol	190 mg/m ³
CAS: 108-10-1	4-methylpentan-2-one	500 ppm
CAS: 7664-38-2	phosphoric acid	30 mg/m ³
CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 108-88-3	toluene	560 ppm

PAC-3:

CAS: 13463-67-7	titanium dioxide	2,000 mg/m ³
CAS: 7727-43-7	barium sulphate, natural	990 mg/m ³
CAS: 1333-86-4	Carbon black	590 mg/m ³
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	310 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³
CAS: 122-99-6	2-Phenoxyethanol	97 ppm
CAS: 100-41-4	ethylbenzene	1800* ppm
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	2100* ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 64-17-5	ethanol	15000* ppm
CAS: 124-68-5	2-amino-2-methylpropanol	570 mg/m ³
CAS: 108-10-1	4-methylpentan-2-one	3000* ppm
CAS: 7664-38-2	phosphoric acid	150 mg/m ³
CAS: 67-63-0	propan-2-ol	12000** ppm
CAS: 108-88-3	toluene	3700* ppm

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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 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: 7727-43-7 barium sulphate, natural

PEL	Long-term value: 15* 5** mg/m ³ *total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *total dust **respirable fraction
TLV	Long-term value: 5* mg/m ³ *inhalable fraction; E

CAS: 1333-86-4 Carbon black

PEL	Long-term value: 3.5 mg/m ³
REL	Long-term value: 3.5* mg/m ³ *0.1 in presence of PAHs; See Pocket Guide Apps.A+C
TLV	Long-term value: 3* mg/m ³ *inhalable fraction, A3

CAS: 100-41-4 ethylbenzene

PEL	Long-term value: 435 mg/m ³ , 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm Long-term value: 435 mg/m ³ , 100 ppm
TLV	Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3

- **Ingredients with biological limit values:**

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

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- **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.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form:	Pasty
· Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.

· pH-value:	Not determined.
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· Change in condition

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	158 °C (316.4 °F)

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· Flash point:	56 °C (132.8 °F) (Abel Pensky)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	410 °C (770 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Not determined.
· Explosion limits:	
Lower:	0.8 Vol %
Upper:	12.7 Vol %
· Vapor pressure at 20 °C (68 °F):	3 hPa (2.3 mm Hg)
· Density at 20 °C (68 °F):	>2.21-<2.22 g/cm ³ (>18.44-<18.53 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):	>3,000 mPas
Kinematic:	Not determined.
· Solvent separation test	
VOC content:	≥3.25-<3.77 % >83.2-<83.6 g/l / >0.69-<0.7 lb/gal
VOC (EC)	≥3.25-<3.77 %
· 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** 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:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

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· **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: 1333-86-4	Carbon black	2B
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3
CAS: 1330-20-7	xylene	3
CAS: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 100-41-4	ethylbenzene	2B
CAS: 64-17-5	ethanol	1
CAS: 108-10-1	4-methylpentan-2-one	2B
CAS: 67-63-0	propan-2-ol	3
CAS: 108-88-3	toluene	3

· **NTP (National Toxicology 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.

· **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.

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.

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14 Transport information

· UN-Number	UN1210
· DOT, IATA	UN1210
· ADR, IMDG	Void
· UN proper shipping name	Printing ink
· DOT	Printing ink
· ADR, IMDG	Void
· IATA	PRINTING INK
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· ADR	
· Class	Void
· ADN/R Class:	Kein Gefahrgut <450l gemäss ADR 2.2.3.1.5
· IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	III
· 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: 7727-43-7 barium sulphate, natural

CAS: 122-99-6 2-Phenoxyethanol

CAS: 100-41-4 ethylbenzene

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CAS: 108-10-1	4-methylpentan-2-one
CAS: 7664-38-2	phosphoric acid
CAS: 67-63-0	propan-2-ol
CAS: 108-88-3	toluene

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

CAS: 100-41-4	ethylbenzene
CAS: 108-10-1	4-methylpentan-2-one
CAS: 108-88-3	toluene

· Proposition 65

· Chemicals known to cause cancer:

CAS: 1333-86-4	Carbon black
CAS: 100-41-4	ethylbenzene

· 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: 7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
CAS: 1330-20-7	xylene	I
CAS: 100-41-4	ethylbenzene	D
CAS: 108-10-1	4-methylpentan-2-one	I
CAS: 108-88-3	toluene	II

· TLV (Threshold Limit Value)

CAS: 13463-67-7	titanium dioxide	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 1330-20-7	xylene	A4
CAS: 100-41-4	ethylbenzene	A3
CAS: 64-17-5	ethanol	A3
CAS: 67-63-0	propan-2-ol	A4
CAS: 108-88-3	toluene	A4

· 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



GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labeling:

Carbon black

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1-dodecycl-2-pyrrolidone

· **Hazard statements**

Flammable liquid and vapor.
Causes serious eye irritation.
May cause an allergic skin reaction.
Suspected of causing cancer. Route of exposure: Inhalation.
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.
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
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
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.
If eye irritation persists: 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** 05/25/2022 / 1

· **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
BEI: Biological Exposure Limit
Flammable Liquids 3: Flammable liquids – Category 3

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Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2

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