

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/24/2022

Reviewed on 05/24/2022

1 Identification

- **Product identifier**
- **Trade name: Series 711**
- **Article number: Series 711**
- **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.



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

- **Signal word** Danger

- **Hazard-determining components of labeling:**

4-Hydroxybutanoic acid lactone
Carbon black
maleic anhydride

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Hazard statements

- Flammable liquid and vapor.
- Causes serious eye damage.
- 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.
- 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 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.
- Immediately call a poison center/doctor.
- 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 Health = *3
 FIRE 2 Fire = 2
 REACTIVITY 0 Reactivity = 0

Other hazards
Results of PBT and vPvB assessment

- PBT:** Not applicable.
- vPvB:** Not applicable.

3 Composition/information on ingredients
Chemical characterization: Mixtures

- Description:** Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 4435-53-4	3-methoxybutyl acetate	10-25%
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	≥2.5-<10%
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	≥3-<10%
CAS: 1333-86-4	Carbon black	2.5-10%

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CAS: 64742-95-6	Solvent naphtha (petroleum), light arom.	≥2.5-≤10%
CAS: 54839-24-6	2-ethoxy-1-methylethyl acetate	2.5-10%
CAS: 1569-02-4	1-ethoxypropan-2-ol	1-2.5%
CAS: 123-86-4	n-butyl acetate	1-2.5%
CAS: 108-31-6	maleic anhydride	≥0.001-<0.1%

Additional information:

Der Benzolgehalt als Verunreinigung im Solvent Naphtha ist <0.1%. Somit ist keine extra Etikettierung erforderlich.

4 First-aid measures

Description of first aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then 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.
- **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:** Wear self-contained respiratory protective device.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **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 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: 123-42-2	4-hydroxy-4-methylpentan-2-one	150 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3.6 mg/m ³
CAS: 1333-86-4	Carbon black	9 mg/m ³
CAS: 123-86-4	n-butyl acetate	5 ppm

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CAS: 107-98-2	1-methoxy-2-propanol	100 ppm
CAS: 64-17-5	ethanol	1,800 ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
CAS: 78-83-1	butanol	150 ppm
CAS: 120-51-4	Benzyl benzoate	5.7 mg/m ³
CAS: 71-36-3	butan-1-ol	60 ppm
CAS: 100-41-4	ethylbenzene	33 ppm
CAS: 1344-28-1	aluminium oxide	15 mg/m ³
CAS: 7664-38-2	phosphoric acid	3 mg/m ³
CAS: 67-63-0	propan-2-ol	400 ppm
CAS: 108-83-8	2,6-dimethylheptan-4-one	75 ppm
CAS: 108-94-1	cyclohexanone	60 ppm
CAS: 102-82-9	tributylamine	0.049 ppm
CAS: 108-31-6	maleic anhydride	0.2 ppm
CAS: 91-20-3	naphthalene	15 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	50 ppm

PAC-2:

CAS: 13463-67-7	titanium dioxide	330 mg/m ³
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	350 ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	39 mg/m ³
CAS: 1333-86-4	Carbon black	99 mg/m ³
CAS: 123-86-4	n-butyl acetate	200 ppm
CAS: 107-98-2	1-methoxy-2-propanol	160 ppm
CAS: 64-17-5	ethanol	3300* ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
CAS: 78-83-1	butanol	1,300 ppm
CAS: 120-51-4	Benzyl benzoate	63 mg/m ³
CAS: 71-36-3	butan-1-ol	800 ppm
CAS: 100-41-4	ethylbenzene	1100* ppm
CAS: 1344-28-1	aluminium oxide	170 mg/m ³
CAS: 7664-38-2	phosphoric acid	30 mg/m ³
CAS: 67-63-0	propan-2-ol	2000* ppm
CAS: 108-83-8	2,6-dimethylheptan-4-one	330 ppm
CAS: 108-94-1	cyclohexanone	830 ppm
CAS: 102-82-9	tributylamine	0.54 ppm
CAS: 108-31-6	maleic anhydride	2 ppm
CAS: 91-20-3	naphthalene	83 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	1,000 ppm

PAC-3:

CAS: 13463-67-7	titanium dioxide	2,000 mg/m ³
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	2100* ppm
CAS: 96-48-0	4-Hydroxybutanoic acid lactone	310 mg/m ³
CAS: 1333-86-4	Carbon black	590 mg/m ³
CAS: 123-86-4	n-butyl acetate	3000* ppm
CAS: 107-98-2	1-methoxy-2-propanol	660 ppm

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CAS: 64-17-5	ethanol	15000* ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³
CAS: 78-83-1	butanol	8000* ppm
CAS: 120-51-4	Benzyl benzoate	380 mg/m ³
CAS: 71-36-3	butan-1-ol	8000** ppm
CAS: 100-41-4	ethylbenzene	1800* ppm
CAS: 1344-28-1	aluminium oxide	990 mg/m ³
CAS: 7664-38-2	phosphoric acid	150 mg/m ³
CAS: 67-63-0	propan-2-ol	12000** ppm
CAS: 108-83-8	2,6-dimethylheptan-4-one	2000* ppm
CAS: 108-94-1	cyclohexanone	5000* ppm
CAS: 102-82-9	tributylamine	3.2 ppm
CAS: 108-31-6	maleic anhydride	20 ppm
CAS: 91-20-3	naphthalene	500 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	5,000 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** 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 foodstuffs.
- **Further information about storage conditions:** None.
- **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: 123-42-2 4-hydroxy-4-methylpentan-2-one

PEL	Long-term value: 240 mg/m ³ , 50 ppm
REL	Long-term value: 240 mg/m ³ , 50 ppm
TLV	Long-term value: 50 ppm

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

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CAS: 1569-02-4 1-ethoxypropan-2-ol

REL	Skin
TLV	Short-term value: 200 ppm Long-term value: 50 ppm Skin

CAS: 123-86-4 n-butyl acetate

PEL	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm

CAS: 108-31-6 maleic anhydride

PEL	Long-term value: 1 mg/m ³ , 0.25 ppm
REL	Long-term value: 1 mg/m ³ , 0.25 ppm
TLV	Long-term value: 0.01* mg/m ³ DSEN, RSEN;*inh. fraction + vapor, A4

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Wash hands before breaks and at the end of work.
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:**
Butyl rubber, BR
- **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: 150-172 °C (302-341.6 °F)

· **Flash point:** 41 °C (105.8 °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:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower: 0.8 Vol %
Upper: 4.7 Vol %

· **Vapor pressure at 20 °C (68 °F):** 1.5 hPa (1.1 mm Hg)

· **Density at 20 °C (68 °F):** >1.86-<1.87 g/cm³ (>15.52-<15.61 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: 21.06-<21.28 %
>395.9-<398 g/l / >3.3-<3.32 lb/gal
VOC (EC) 21.06-<21.28 %

· **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.

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· **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: 623-84-7 propane-1,2-diyl diacetate

Oral	LD50	5,000 mg/kg (rat)
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Dermal	LD50	2,000 mg/kg (rab)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **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
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CAS: 96-48-0	4-Hydroxybutanoic acid lactone	3
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CAS: 1333-86-4	Carbon black	2B
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CAS: 64-17-5	ethanol	1
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CAS: 7631-86-9	silicon dioxide, chemically prepared	3
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CAS: 1330-20-7	xylene	3
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CAS: 100-41-4	ethylbenzene	2B
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CAS: 67-63-0	propan-2-ol	3
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CAS: 108-94-1	cyclohexanone	3
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CAS: 91-20-3	naphthalene	2B
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· **NTP (National Toxicology Program)**

CAS: 91-20-3	naphthalene	R
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· **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.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **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.

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- 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, IMDG, IATA** UN1210
- **UN proper shipping name**
- **DOT** Printing ink
- **ADR** 1210 PRINTING INK
- **IMDG, IATA** PRINTING INK
- **Transport hazard class(es)**
- **DOT**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **ADR, IMDG, IATA**
- 
- **Class** 3 Flammable liquids
- **Label** 3
- **Packing group**
- **DOT, ADR, IMDG, IATA** III
- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Flammable liquids
- **Hazard identification number (Kemler code):** 30
- **EMS Number:** F-E,S-D
- **Stowage Category** A
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

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· 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 1210 PRINTING INK, 3, III

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: 71-36-3	butan-1-ol
CAS: 100-41-4	ethylbenzene
CAS: 1344-28-1	aluminium oxide
CAS: 7664-38-2	phosphoric acid
CAS: 67-63-0	propan-2-ol
CAS: 108-31-6	maleic anhydride
CAS: 91-20-3	naphthalene

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

CAS: 100-41-4	ethylbenzene
CAS: 108-31-6	maleic anhydride
CAS: 91-20-3	naphthalene

· Proposition 65

· Chemicals known to cause cancer:

CAS: 1333-86-4	Carbon black
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· 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: 71-36-3	butan-1-ol	D
CAS: 100-41-4	ethylbenzene	D
CAS: 91-20-3	naphthalene	C, CBD

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· TLV (Threshold Limit Value)		
CAS: 13463-67-7	titanium dioxide	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 64-17-5	ethanol	A3
CAS: 1330-20-7	xylene	A4
CAS: 100-41-4	ethylbenzene	A3
CAS: 1344-28-1	aluminium oxide	A4
CAS: 67-63-0	propan-2-ol	A4
CAS: 108-94-1	cyclohexanone	A3
CAS: 108-31-6	maleic anhydride	A4
CAS: 91-20-3	naphthalene	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 GHS05 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

4-Hydroxybutanoic acid lactone
Carbon black
maleic anhydride

· **Hazard statements**

Flammable liquid and vapor.
Causes serious eye damage.
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.
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 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.
Immediately call a poison center/doctor.
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.

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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** 05/24/2022 / 10

· **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

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