

Printing date 05/24/2022 Reviewed on 05/24/2022

1 Identification

· Product identifier

· Trade name: Series 712

· Article number: Series 712

- · 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.		
<u> </u>				



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

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.



Specific Target Organ Toxicity - Single Exposure 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms







GHS02 GHS07

N7 GHS

· Signal word Danger

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· Hazard-determining components of labeling:

Solvent naphtha (petroleum), light arom.

Carbon black

Hydrocarbon, C10, aromatics, <1% naphthalene

2-methoxy-1-methylethyl acetate

Hazard statements

Flammable liquid and vapor.

Suspected of causing cancer. Route of exposure: Inhalation.

Suspected of damaging fertility or the unborn child.

May cause respiratory irritation. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

· Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye 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 INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

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 = 0 Fire = 2 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 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: 64742-95-6 Solvent naphtha (petroleum), light arom.

25-50%

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CAS: 1189173-42-9	Hydrocarbon, C10, aromatics, <1% naphthalene	(Contd. of page 2) ≥10-<20%
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%
CAS: 1333-86-4	Carbon black	2.5-10%
CAS: 64742-95-6	hydrocarbons, C9, aromates	1-2.5%
CAS: 97-86-9	isobutyl methacrylate	≥0.1-<0.5%
CAS: 77-99-6	propylidynetrimethanol	≥0.1-<0.5%

· 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
- · 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.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, 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.

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.

Keep away from ignition sources

· 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).

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.

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Protective Action	n Criteria for Chemicals	(Contd. of page 3
PAC-1:		
CAS: 13463-67-7	titanium dioxide	30 mg/m³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
CAS: 1333-86-4	Carbon black	9 mg/m³
CAS: 108-90-7	chlorobenzene	10 ppm
CAS: 70657-70-4	2-methoxypropyl acetate	50 ppm
PAC-2:		
CAS: 13463-67-7	titanium dioxide	330 mg/m ³
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
CAS: 1333-86-4	Carbon black	99 mg/m³
CAS: 108-90-7	chlorobenzene	150 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: 108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
CAS: 1333-86-4	Carbon black	590 mg/m ³
CAS: 108-90-7	chlorobenzene	400 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:

Keep ignition sources away - Do not smoke.

- Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:

Store in a cool location.

Provide floor trough without outlet.

- · 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:	108-65-6 2-methoxy-1-methylethyl acetate
WEEL	Long-term value: 50 ppm
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, A3

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

- · Breathing equipment: Not necessary if room is well-ventilated.
- 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:

Butvl 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 Not determined.

· **pH-value:** Not determined.

· Change in condition

Melting point/Melting range: Undetermined.

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	(Contd. of page
Boiling point/Boiling range:	>150 °C (>302 °F)
Flash point:	48 °C (118.4 °F) (Abel Pensky)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	315 °C (599 °F)
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive ai vapor mixtures are possible.
Explosion limits: Lower: Upper:	0.7 Vol % 7.5 Vol %
Vapor pressure at 20 °C (68 °F):	5 hPa (3.8 mm Hg)
Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate	1.58- 1.67 g/cm³ (13.19- 13.94 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	er): Not determined.
Viscosity: Dynamic at 20 °C (68 °F): Kinematic:	>1,000 mPas Not determined.
Solvent separation test VOC content:	47.89-47.91 % 757- 800.1 g/l / 6.32- 6.68 lb/gal
VOC (EC)	47.89-47.91 %
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:
- · LD/LC50 values that are relevant for classification:

CAS: 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 3,592 mg/kg (rat)

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(Contd. of page 6) Dermal LD50 3,160 mg/kg (rab) Inhalative LC50/4 h >10.2 mg/l (rat)

Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

· Carcinogenic categories		
· IARC (International Agenc	y for Research on Cancer)	
CAS: 13463-67-7 titanium (dioxide	2B
CAS: 1333-86-4 Carbon b	olack	2B
· NTP (National Toxicology	Program)	
None of the ingredients is list	sted.	
· OSHA-Ca (Occupational S	Safety & Health Administration)	
None of the ingredients is list	sted.	

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:

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

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, IMDG, IATA

UN1210

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· UN proper shipping name

· **DOT** Printing ink

· ADR 1210 PRINTING INK, ENVIRONMENTALLY

HAZARDOUS

· IMDG PRINTING INK, MARINE POLLUTANT

· IATA PRINTING INK

· Transport hazard class(es)

· DOT



Class 3 Flammable liquids

· Label 3

· ADR, IMDG



· Class 3 Flammable liquids

· Label 3

· IATA



· Class 3 Flammable liquids

· Label 3

· Packing group

· DOT, ADR, IMDG, IATA

· Environmental hazards: Product contains environmentally hazardous

substances: Solvent naphtha (petroleum), light arom.

• Marine pollutant: Symbol (fish and tree)

Special marking (ADR): Symbol (fish and tree)

· 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.

· 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

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(Contd. of page 8) 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, ENVIRONMENTALLY **HAZARDOUS**

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: 108-90-7 chlorobenzene

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

CAS: 108-90-7 chlorobenzene

- · Proposition 65
- · Chemicals known to cause cancer:

CAS: 1333-86-4 Carbon black

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

CAS: 108-90-7 | chlorobenzene

D

· TLV (Threshold Limit Value)

CAS: 13463-67-7	titanium dioxide	A4
CAS: 1333-86-4	Carbon black	A4
CAS: 108-90-7	chlorobenzene	A3

· 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

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· Signal word Danger

· Hazard-determining components of labeling:

Solvent naphtha (petroleum), light arom.

Carbon black

Hydrocarbon, C10, aromatics, <1% naphthalene

2-methoxy-1-methylethyl acetate

· Hazard statements

Flammable liquid and vapor.

Suspected of causing cancer. Route of exposure: Inhalation.

Suspected of damaging fertility or the unborn child.

May cause respiratory irritation. May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye 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 INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

In case of fire: Use CO2, powder or water spray to extinguish.

Store in a well-ventilated place. Keep container tightly closed.

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 / 6
- 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

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OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

Flammable Liquids 3: Flammable liquids – Category 3
Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Aspiration Hazard 1: Aspiration hazard – Category 1