

Printing date 05/02/2022 Reviewed on 05/02/2022

1 Identification

· Product identifier

· Trade name: VM Thinner

· Article number: Series 700-017

· Application of the substance / the mixture

Additive 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

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







011002 011

GHS02 GHS07

7 01100

- · Signal word Danger
- · Hazard-determining components of labeling:

Solvent naphtha (petroleum), light arom.

n-butyl acetate

2-methoxy-1-methylethyl acetate

Hazard statements

Flammable liquid and vapor.

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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.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing vapours.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

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.

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 = 3 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0 Fire = 3 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%	
CAS: 108-94-1	cyclohexanone	10-25%	
CAS: 123-86-4	n-butyl acetate	≥20-≤25%	
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	2.5-10%	

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.

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· 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.

Protective Action Criteria for Chemicals

PAC-1:			
CAS: 108-94-1	cyclohexanone	60	ppn
CAS: 123-86-4	n-butyl acetate	5 p	pm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	50	ppn
CAS: 70657-70-4	2-methoxypropyl acetate	50	ppn
PAC-2:		·	
CAS: 108-94-1	cyclohexanone	830 pp	om
CAS: 123-86-4	n-butyl acetate	200 pp	om
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1,000	ppn
CAS: 70657-70-4	2-methoxypropyl acetate	1,000	ppr
PAC-3:			
CAS: 108-94-1	cyclohexanone	5000*	ppr
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		(Contd. of page 3)
CAS: 123-86-4	n-butyl acetate	3000* ppm
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	5000* 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.

Use explosion-proof apparatus / fittings and spark-proof tools.

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

Prevent any seepage into the ground.

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 remaining constituent has 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:	123-86-4 n-butyl acetate	
PEL	Long-term value: 710 mg/m³, 150 ppm	
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm	
TLV	Short-term value: 150 ppm Long-term value: 50 ppm	
CAS:	108-65-6 2-methoxy-1-methylethyl acetate	
WEEL	L Long-term value: 50 ppm	
	(Contd. on	page



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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)

- · 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:

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: Fluid

Color: According to product specification

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Odor: Characteristic Odor threshold: Not determined. PH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: 124 °C (255.2 °F) Flash point: 27 °C (80.6 °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 a vapor mixtures are possible. Explosion limits: Lower: 0.7 Vol % Upper: 9.4 Vol % Vapor pressure at 20 °C (68 °F): 10.7 hPa (8 mm Hg) Density at 20 °C (68 °F): 0.9 g/cm³ (7.51 lbs/gal) Not determined. Vapor density Not determined. Not determined. Solubility in / Miscibility with Water: Not determined. Viscosity: Dynamic: Not determined. Viscosity: Not determined. Not determined. Not determined. Not determined. Not determined. Solvent separation test VOC content: \$99.98 % \$899.8 g/l / ≤7.51 lb/gal \$99.98 %		
Odor threshold: PH-value: Not determined. PH-value: Undetermined. Undetermined. Boiling point/Melting range: Boiling point/Boiling range: 124 °C (255.2 °F) Flash point: 27 °C (80.6 °F) (Abel Pensky) Flammability (solid, gaseous): Not applicable. Ignition temperature: 315 °C (599 °F) Decomposition temperature: Not determined. Auto igniting: Product is not selfigniting. Product is not explosive. However, formation of explosive a vapor mixtures are possible. Explosion limits: Lower: Upper: 9.4 Vol % Vapor pressure at 20 °C (68 °F): 10.7 Vol % Upper: 9.4 Vol % Vapor pressure at 20 °C (68 °F): 0.9 g/cm³ (7.51 lbs/gal) Relative density Not determined. Vapor density Vapor density Not determined. Solubility in / Miscibility with Water: Not miscible or difficult to mix. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Kinematic: Not determined. Solvent separation test VOC content: \$99.98 % \$899.8 g/l / ≤7.51 lb/gal \$99.98 % \$99.98 %		(Contd. of page
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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: Not determined. Dynamic: Not determined. Kinematic: Not determined. Solvent separation test VOC content: ≤99.98 % ≤899.8 g/l / ≤7.51 lb/gal VOC (EC) ≤99.98 %	· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
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: ≤99.98 % ≤899.8 g/l / ≤7.51 lb/gal VOC (EC) ≤99.98 %	· Relative density · Vapor density	Not determined. Not determined.
Viscosity: Dynamic: Not determined. Kinematic: Not determined. Solvent separation test ≤99.98 % VOC content: ≤99.98 % <899.8 g/l / ≤7.51 lb/gal VOC (EC) ≤99.98 %		Not miscible or difficult to mix.
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- ()	VOC content:	≤899.8 g/l / ≤7.51 lb/gal
	· Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions 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.



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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)

 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 Agency for Research on Cancer)

CAS: 108-94-1 cyclohexanone

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.
- · 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.

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

4 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	UN1210
· UN proper shipping name · DOT · ADR	Printing ink related material 1210 PRINTING INK RELATED MATERIAL ENVIRONMENTALLY HAZARDOUS
· IMDG	PRINTING INK RELATED MATERIAL (Solvent naphtha (petroleum), light arom.), MARINE POLLUTANT
·IATA	PRINTING INK RELATED MATERIAL
· Transport hazard class(es) · DOT	
T AMMAR I LOUID	
· Class · Label	3 Flammable liquids 3
· ADR, IMDG	3
· Class · Label	3 Flammable liquids 3
·IATA	
· Class · Label	3 Flammable liquids 3
· Packing group · DOT, ADR, IMDG, IATA	III
Environmental hazards:	Product contains environmentally hazardous substances: Solvent naphtha (petroleum), light arom.
· Marine pollutant: · Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
 Special precautions for user Hazard identification number (Kemler code): EMS Number: Stowage Category 	Warning: Flammable liquids 30 F-E,S-D 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 RELATED MATERIAL, 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):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· Hazardous Air Pollutants

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value)

CAS: 108-94-1 cyclohexanone

A3

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

None of the ingredients is listed.

GHS label elements

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

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· Hazard pictograms

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GHS02 GHS07 GI

· Signal word Danger

· Hazard-determining components of labeling:

Solvent naphtha (petroleum), light arom.

n-butyl acetate

2-methoxy-1-methylethyl acetate

· Hazard statements

Flammable liquid and vapor.

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.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing vapours.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

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.

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 05/02/2022 / 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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Printing date 05/02/2022 Reviewed on 05/02/2022

Trade name: VM Thinner

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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

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Aspiration Hazard 1: Aspiration hazard – Category 1