

Safety Data Sheet
acc. to OSHA HCS

Printing date 01/08/2019

Reviewed on 01/08/2019

1 Identification

- **Product identifier**
- **Trade name: ST-Varnish**
- **Article number: Series 747-05**
- **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

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 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:**

Dipentaerythritolhexaacrylat

Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]

2-hydroxyethyl methacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2-phenoxyethyl acrylate

tripropylene glycol diacrylate

hexamethylene diacrylate

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glycerol, propoxylated, esters with acrylic acid

4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid

2,2-bis(acryloyloxymethyl)butyl acrylate

• **Hazard statements**

Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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 vapours.

Wash thoroughly after handling.

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

Wear protective gloves/protective clothing/eye protection/face protection.

Use personal protective equipment as required.

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).

Take off contaminated clothing and wash it before reuse.

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 for extinction: CO₂, powder or water spray.

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.

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3 Composition/information on ingredients

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

- **Dangerous components:**

CAS: 123-86-4	n-butyl acetate	10-25%
CAS: 29570-58-9	Dipentaerythritolhexaacrylat	2.5-10%
CAS: 868-77-9	2-hydroxyethyl methacrylate	2.5-10%
CAS: 48145-04-6	2-phenoxyethyl acrylate	2.5-10%
CAS: 327622-75-3	Fatty acids, C18-unsatd., dimers, polymers with acrylic acid and 1,3,5-tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione	2.5-10%
CAS: 63225-53-6	2-[[[(butylamino)carbonyl]oxy]ethyl acrylate	2.5-10%
CAS: 163702-01-0	Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]	1-2.5%
CAS: 7727-43-7	barium sulphate, natural	1-2.5%
CAS: 5888-33-5	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	1-2.5%
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	1-2.5%
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone	1-2.5%
CAS: 24599-21-1	2-(phosphonooxy)ethyl methacrylate	1-2.5%
CAS: 32435-46-4	bis(methacryloyloxyethyl) hydrogen phosphate	1-2.5%
CAS: 157811-87-5	Siloxanes and silicones, di-Me, hydrogen-terminated, reaction products with pentaerythritol tetraacrylate	1-2.5%
	Polybutadiene dimethacrylate	1-2.5%
CAS: 42978-66-5	tripropylene glycol diacrylate	<0.5%
CAS: 13048-33-4	hexamethylene diacrylate	<0.5%
CAS: 52408-84-1	glycerol, propoxylated, esters with acrylic acid	<0.5%
CAS: 55818-57-0	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid	<0.5%
CAS: 15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate	<0.5%

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **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, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.

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- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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).
Ensure adequate ventilation.
- **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: 123-86-4	n-butyl acetate	5 ppm
CAS: 868-77-9	2-hydroxyethyl methacrylate	1.9 mg/m ³
CAS: 7727-43-7	barium sulphate, natural	15 mg/m ³
CAS: 13048-33-4	hexamethylene diacrylate	3 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
CAS: 1344-28-1	aluminium oxide	15 mg/m ³
CAS: 79-10-7	acrylic acid	1.5 ppm
CAS: 150-76-5	mequinol	15 mg/m ³
CAS: 97-88-1	n-butyl methacrylate	19 mg/m ³
CAS: 80-62-6	methyl methacrylate	17 ppm

· PAC-2:

CAS: 123-86-4	n-butyl acetate	200 ppm
CAS: 868-77-9	2-hydroxyethyl methacrylate	21 mg/m ³
CAS: 7727-43-7	barium sulphate, natural	170 mg/m ³
CAS: 13048-33-4	hexamethylene diacrylate	170 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
CAS: 1344-28-1	aluminium oxide	170 mg/m ³
CAS: 79-10-7	acrylic acid	46 ppm
CAS: 150-76-5	mequinol	49 mg/m ³
CAS: 97-88-1	n-butyl methacrylate	210 mg/m ³
CAS: 80-62-6	methyl methacrylate	120 ppm

· PAC-3:

CAS: 123-86-4	n-butyl acetate	3000* ppm
CAS: 868-77-9	2-hydroxyethyl methacrylate	1,000 mg/m ³
CAS: 7727-43-7	barium sulphate, natural	990 mg/m ³
CAS: 13048-33-4	hexamethylene diacrylate	990 mg/m ³
CAS: 7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³
CAS: 1344-28-1	aluminium oxide	990 mg/m ³
CAS: 79-10-7	acrylic acid	180 ppm
CAS: 150-76-5	mequinol	320 mg/m ³
CAS: 97-88-1	n-butyl methacrylate	1,300 mg/m ³

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CAS: 80-62-6 methyl methacrylate

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570 ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
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:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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: 123-86-4 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: 712 mg/m ³ , 150 ppm Long-term value: 238 mg/m ³ , 50 ppm

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: 13048-33-4 hexamethylene diacrylate

WEEL	Long-term value: 1 mg/m ³ DSEN
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CAS: 15625-89-5 2,2-bis(acryloyloxymethyl)butyl acrylate

WEEL	Long-term value: 1 mg/m ³ Skin
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- **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.
Avoid contact with the eyes.

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Avoid contact with the eyes and skin.

· **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.

· **Eye protection:**



Tightly sealed goggles

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: Undetermined.

· **Flash point:** 41 °C (105.8 °F) (Abel Pensky)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 370 °C (698 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 1.2 Vol %

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Upper:	7.5 Vol %
· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
· Density at 20 °C (68 °F):	1.35 g/cm ³ (11.27 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):	4500 mPas
Kinematic:	Not determined.
VOC content:	15.5 % 209.0 g/l / 1.74 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.

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.
- **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: 7631-86-9	silicon dioxide, chemically prepared	3
CAS: 128-37-0	Butylated hydroxytoluene	3
CAS: 79-10-7	acrylic acid	3
CAS: 80-62-6	methyl methacrylate	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

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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.
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, ADN, IMDG** Void

- **UN proper shipping name**
- **DOT** Printing ink
- **ADR, ADN, IMDG** Void
- **IATA** PRINTING INK

· **Transport hazard class(es)**

- **DOT**



- **Class** 3 Flammable liquids
- **Label** 3

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· ADR	
· Class	Void
	Not restricted good <450l according to ADR 2.2.3.1.5 free
· ADN/R Class:	Void

· IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IATA	III
· ADR, IMDG	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Stowage Category	A
· 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
- 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: 1344-28-1	aluminium oxide
CAS: 79-10-7	acrylic acid
CAS: 80-62-6	methyl methacrylate

· TSCA (Toxic Substances Control Act):

CAS: 123-86-4	n-butyl acetate
CAS: 60506-81-2	Dipnetaerythritol Pentaacrylate Esters
CAS: 29570-58-9	Dipentaerythritolhexaacrylat
CAS: 868-77-9	2-hydroxyethyl methacrylate
CAS: 48145-04-6	2-phenoxyethyl acrylate
CAS: 63225-53-6	2-[[[(butylamino)carbonyl]oxy]ethyl acrylate
CAS: 7727-43-7	barium sulphate, natural
CAS: 5888-33-5	exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate
CAS: 75980-60-8	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
CAS: 7473-98-5	2-hydroxy-2-methylpropiophenone
CAS: 24599-21-1	2-(phosphonoxy)ethyl methacrylate

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CAS: 32435-46-4	bis(methacryloyloxyethyl) hydrogen phosphate
CAS: 157811-87-5	Siloxanes and silicones, di-Me, hydrogen-terminated, reaction products with pentaerythritol tetraacrylate
CAS: 954-16-5	2,4,6-trimethylbenzophenone
CAS: 40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate
CAS: 42978-66-5	tripropylene glycol diacrylate
CAS: 13048-33-4	hexamethylene diacrylate
CAS: 7631-86-9	silicon dioxide, chemically prepared
CAS: 52408-84-1	glycerol, propoxylated, esters with acrylic acid
CAS: 55818-57-0	4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
CAS: 15625-89-5	2,2-bis(acryloyloxymethyl)butyl acrylate
CAS: 128-37-0	Butylated hydroxytoluene
CAS: 1344-28-1	aluminium oxide
CAS: 4986-89-4	pentaerythritol tetraacrylate
CAS: 79-10-7	acrylic acid
CAS: 150-76-5	mequinol
CAS: 97-88-1	n-butyl methacrylate
CAS: 80-62-6	methyl methacrylate

• TSCA new (21st Century Act) (Substances not listed)

CAS: 327622-75-3	Fatty acids, C18-unsatd., dimers, polymers with acrylic acid and 1,3,5-tris(2-hydroxyethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione
CAS: 163702-01-0	Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]
CAS: 32435-46-4	bis(methacryloyloxyethyl) hydrogen phosphate
CAS: 157811-87-5	Siloxanes and silicones, di-Me, hydrogen-terminated, reaction products with pentaerythritol tetraacrylate
	Polybutadiene dimethacrylate

• 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)

CAS: 7727-43-7	barium sulphate, natural	D, CBD(inh), NL(oral)
CAS: 80-62-6	methyl methacrylate	E, NL

• TLV (Threshold Limit Value established by ACGIH)

CAS: 128-37-0	Butylated hydroxytoluene	A4
CAS: 1344-28-1	aluminium oxide	A4
CAS: 79-10-7	acrylic acid	A4
CAS: 80-62-6	methyl methacrylate	A4

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

None of the ingredients is listed.

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· **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:**

Dipentaerythritolhexaacrylat
Oligo[2-hydroxy-2-methyl-1-[4-(1-methylvinyl)phenyl]propanone]
2-hydroxyethyl methacrylate
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
2-phenoxyethyl acrylate
tripropylene glycol diacrylate
hexamethylene diacrylate
glycerol, propoxylated, esters with acrylic acid
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, esters with acrylic acid
2,2-bis(acryloyloxymethyl)butyl acrylate

· **Hazard statements**

Flammable liquid and vapor.
Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.
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 vapours.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
Use personal protective equipment as required.
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).
Take off contaminated clothing and wash it before reuse.
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 for extinction: CO₂, powder or water spray.
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.

US

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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** 01/08/2019 / -

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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
ACGIH: American Conference of Governmental Industrial Hygienists
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
Flam. Liq. 3: Flammable liquids – Category 3
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2