

Safety data sheet
according to 830/2015/EC

Printing date: 20.04.2016

Revision: 20.04.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Blue Marking Ink Kleenscribe Layout Dye
- **Article number:** #1610
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use**
 SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
 SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Application of the substance / the mixture:** Printing inks
- **Uses advised against:** Contact manufacturer.
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
 The L.S. Starrett Company
 121 Crescent St.
 Athol, MA 01331
 (978) 249-3551
- **1.4 Emergency telephone number:**
 ChemTel Inc.
 +1 (800)255-3924, +1 (813)248-0585

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
 Flam. Liq. 2 H225 Highly flammable liquid and vapour.
 Acute Tox. 3 H301 Toxic if swallowed.
 Acute Tox. 3 H311 Toxic in contact with skin.
 Acute Tox. 3 H331 Toxic if inhaled.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Muta. 1B H340 May cause genetic defects.
 Carc. 1B H350 May cause cancer.
 Repr. 2 H361d Suspected of damaging the unborn child.
 STOT SE 1 H370 Causes damage to the central nervous system and optic nerve.
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Additional information:**
 There are no other hazards not otherwise classified that have been identified.
 0 % of the mixture consists of component(s) of unknown toxicity.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.

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- **Hazard pictograms**



GHS02 GHS06 GHS08 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

methanol
Solvent naphtha (petroleum), light aliph.
toluene
n-butyl acetate
ethyl acetate

- **Hazard statements**

H225 Highly flammable liquid and vapour.
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.
H319 Causes serious eye irritation.
H340 May cause genetic defects.
H350 May cause cancer.
H361d Suspected of damaging the unborn child.
H370 Causes damage to the central nervous system and optic nerve.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe mist/vapours/spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331 Do NOT induce vomiting.
P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.
P403+P235 Store in a well-ventilated place. Keep cool.

- **Additional information:**

Can become highly flammable in use.
Restricted to professional users.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

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

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SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Components:

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	ethanol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319	25-50%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	10-25%
CAS: 67-56-1 EINECS: 200-659-6 Index number: 603-001-00-X	methanol ⚠ Flam. Liq. 2, H225 ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 ⚠ STOT SE 1, H370	2,5-10%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	ethyl acetate ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2,5-10%
CAS: 9004-70-0 EC number: 603-037-0	Nitrocellulose, colloided, granular ⚠ Expl. 1.1, H201	2,5-10%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	propan-2-ol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2,5-10%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3	toluene ⚠ Flam. Liq. 2, H225 ⚠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304 ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	2,5-10%
CAS: 64742-89-8 EINECS: 265-192-2 Index number: 649-267-00-0	Solvent naphtha (petroleum), light aliph. ⚠ Muta. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304	2,5-10%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8	acetone ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2,5-10%

· Additional information:

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.
For the wording of the listed Hazard Statements refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

Take affected persons out into the fresh air.

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- **After inhalation:**
Supply fresh air or oxygen; call for doctor.
In case of irregular breathing or respiratory arrest provide artificial respiration.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Remove contact lenses if worn.
Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
A person vomiting while laying on their back should be turned onto their side.
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**
Headache
Dizziness
Breathing difficulty
Thirst
Gastric or intestinal disorders.
Acidosis
Nausea
Vision disorders.
Blindness
May cause respiratory irritation.
Disorientation
Unconsciousness
- **Hazards:**
Danger of impaired breathing.
Danger of disturbed cardiac rhythm.
Danger of convulsion.
Condition may deteriorate with alcohol consumption.
Causes damage to organs through prolonged or repeated exposure.
May cause neurotoxic effects.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Contains Methanol. Consult literature for specific antidotes.
Medical supervision for at least 48 hours.
If necessary oxygen respiration treatment.
If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** None.
- **5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.

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Formation of toxic gases is possible during heating or in case of fire.

- **5.3 Advice for firefighters**

- **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

- **Additional information:**

Use large quantities of foam as it is partially destroyed by the product.

Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **6.2 Environmental precautions** Do not allow to enter sewers/ surface or ground water.

- **6.3 Methods and material for containment and cleaning up**

Absorb with non-combustible liquid-binding material (sand, diatomite, acid binders, universal binders).

Send for recovery or disposal in suitable receptacles.

Dispose contaminated material as waste according to section 13.

- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**

Avoid splashes or spray in enclosed areas.

Prevent formation of aerosols.

Use only in well ventilated areas.

Keep away from open flame or other ignition sources.

- **Information about fire - and explosion protection:**

Flammable gas-air mixtures may form in empty receptacles.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

- **7.2 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 oxidising agents.

Store away from foodstuffs.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Keep container tightly sealed.

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· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

64-17-5 ethanol

PEL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 1900 mg/m ³ , 1000 ppm
TLV (USA)	Short-term value: 1880 mg/m ³ , 1000 ppm
AGW (Germany)	Long-term value: 960 mg/m ³ , 500 ppm 2(II);DFG, Y

123-86-4 n-butyl acetate

PEL (USA)	Long-term value: 710 mg/m ³ , 150 ppm
REL (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV (USA)	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 150 ppm
AGW (Germany)	Long-term value: 300 mg/m ³ , 62 ppm 2(I);Y, AGS

67-56-1 methanol

IOELV (EU)	Long-term value: 260 mg/m ³ , 200 ppm Skin
PEL (USA)	Long-term value: 260 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin
TLV (USA)	Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
AGW (Germany)	Long-term value: 270 mg/m ³ , 200 ppm 4(II);DFG, EU, H, Y

141-78-6 ethyl acetate

PEL (USA)	Long-term value: 1400 mg/m ³ , 400 ppm
REL (USA)	Long-term value: 1400 mg/m ³ , 400 ppm
TLV (USA)	Long-term value: 1440 mg/m ³ , 400 ppm
AGW (Germany)	Long-term value: 1500 mg/m ³ , 400 ppm 2(I);DFG, Y

67-63-0 propan-2-ol

PEL (USA)	Long-term value: 980 mg/m ³ , 400 ppm
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REL (USA)	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV (USA)	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm BEI
AGW (Germany)	Long-term value: 500 mg/m ³ , 200 ppm 2(II);DFG, Y

108-88-3 toluene

PEL (USA)	Long-term value: 200 ppm Ceiling limit: 300; 500* ppm *10-min peak per 8-hr shift
REL (USA)	Short-term value: 560 mg/m ³ , 150 ppm Long-term value: 375 mg/m ³ , 100 ppm
TLV (USA)	Long-term value: 75 mg/m ³ , 20 ppm BEI
AGW (Germany)	Long-term value: 190 mg/m ³ , 50 ppm 4(II);DFG, EU, H, Y

64742-89-8 Solvent naphtha (petroleum), light aliph.

MAK (Germany)	vgl.Abschn.Xb
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67-64-1 acetone

IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm
PEL (USA)	Long-term value: 2400 mg/m ³ , 1000 ppm
REL (USA)	Long-term value: 590 mg/m ³ , 250 ppm
TLV (USA)	Short-term value: (1782) NIC-1187 mg/m ³ , (750) NIC-500 ppm Long-term value: (1188) NIC-594 mg/m ³ , (500) NIC-250 ppm BEI
AGW (Germany)	Long-term value: 1200 mg/m ³ , 500 ppm 2(I);DFG, EU

· Ingredients with biological limit values:**67-56-1 methanol**

BEI (USA)	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
BGW (Germany)	30 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: Nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende Parameter: Methanol

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BEI (USA)	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
BGW (Germany)	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton
	25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton

108-88-3 toluene

BEI (USA)	0,02 mg/L Medium: blood Time: prior to last shift of workweek Parameter: Toluene
	0,03 mg/L Medium: urine Time: end of shift Parameter: Toluene
BGW (Germany)	0,3 mg/g creatinine Medium: urine Time: end of shift Parameter: o-Cresol with hydrolysis (background)
	600 µg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Toluol
	1,5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: bei Langzeitexposition: Nach mehreren vorangegangenen Schichten, Expositionsende bzw. Schichtende Parameter: o-Kresol

67-64-1 acetone

BEI (USA)	50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)
BGW (Germany)	80 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Aceton

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- **8.2 Exposure controls**

- **Engineering measures**

Provide adequate ventilation.

Use explosion-proof electrical/ventilating/lighting/equipment.

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- **Respiratory protection:**

Suitable respiratory protective device recommended.

Use suitable respiratory protective device when aerosol or mist is formed.

Use suitable respiratory protective device when high concentrations are present.

NIOSH or EN approved organic vapour respirator equipped with a dust/mist prefilter should be used.

- **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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Safety glasses

- **Body protection:** Impervious protective clothing

- **Limitation and supervision of exposure into the environment:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Risk management measures:** See Section 7 for additional information.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance

· Form:	Liquid
· Colour:	Blue
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value:	Not determined.
· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	56 °C

· Flash point:	-20 °C
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· Flammability (solid, gaseous):	Not applicable.
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· Auto/Self-ignition temperature:	370 °C
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· Decomposition temperature:	Not determined.
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· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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· Explosion limits

· Lower:	1,2 Vol %
· Upper:	44,0 Vol %

· Vapour pressure at 20 °C:	128 hPa
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· Density at 20 °C:	0,89 g/cm ³
· Relative density:	Not determined.
· Vapour density:	Not determined.
· Evaporation rate:	Not determined.

· Solubility in / Miscibility with water:	Fully miscible.
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· Partition coefficient (n-octanol/water):	Not determined.
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· Viscosity

· Dynamic:	Not determined.
· Kinematic:	Not determined.

· 9.2 Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· 10.3 Possibility of hazardous reactions

Can react violently with oxygen rich (oxidising) material. Danger of Explosion.

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- Highly flammable liquid and vapour.
 Reacts with strong acids.
 Reacts with certain metals.
 Forms flammable gases/fumes.
 Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid** No further relevant information available.
 - **10.5 Incompatible materials** No further relevant information available.
 - **10.6 Hazardous decomposition products**
 Carbon monoxide and carbon dioxide
 Nitrogen oxides
 Small quantities of formaldehyde may be formed

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
 Toxic if swallowed, in contact with skin or if inhaled.

· **LD/LC50 values relevant for classification:**

67-56-1 methanol

Oral	LD50	5628 mg/kg (rat)
Dermal	LD50	15800 mg/kg (rabbit)

108-88-3 toluene

Oral	LD50	5000 mg/kg (rat)
Dermal	LD50	12124 mg/kg (rabbit)
Inhalative	LC50/4 h	5320 mg/l (mouse)

- **Primary irritant effect**
- **Skin corrosion/irritation:** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation:**
 Causes serious eye irritation.
- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

· **IARC (International Agency for Research on Cancer):**

67-63-0	propan-2-ol	3
108-88-3	toluene	3

· **Probable routes of exposure:**

- Ingestion.
 Inhalation.
 Eye contact.
 Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):**
 Toxic if swallowed, in contact with skin or if inhaled.
 May cause damage to the central nervous system and optic nerve.
 Irritating to eyes.
- **Repeated dose toxicity:** Danger of very serious irreversible effects.
- **Germ cell mutagenicity:**
 May cause genetic defects.

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- **Carcinogenicity:**
May cause cancer.
- **Reproductive toxicity:**
Suspected of damaging the unborn child.
- **STOT-single exposure:**
Causes damage to the central nervous system and optic nerve.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- **Aspiration hazard:**
May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Moderately /partly biodegradable
- **12.3 Bioaccumulative potential** Non significant accumulation in organisms
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Hand over to hazardous waste disposers.
Must be specially treated adhering to official regulations.
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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SECTION 14: Transport information

<ul style="list-style-type: none"> · 14.1 UN-Number 	UN1210
<ul style="list-style-type: none"> · DOT, ADR, IMDG, IATA 	
<ul style="list-style-type: none"> · 14.2 UN proper shipping name 	PRINTING INK
<ul style="list-style-type: none"> · DOT, IMDG, IATA · ADR 	1210 PRINTING INK
<ul style="list-style-type: none"> · 14.3 Transport hazard class(es) 	
<ul style="list-style-type: none"> · DOT 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · ADR 	
	
<ul style="list-style-type: none"> · Class · Label 	3 (F1) Flammable liquids. 3
<ul style="list-style-type: none"> · IMDG, IATA 	
	
<ul style="list-style-type: none"> · Class · Label 	3 Flammable liquids. 3
<ul style="list-style-type: none"> · 14.4 Packing group 	II
<ul style="list-style-type: none"> · DOT, ADR, IMDG, IATA 	
<ul style="list-style-type: none"> · 14.5 Environmental hazards: 	
<ul style="list-style-type: none"> · Marine pollutant: 	No
<ul style="list-style-type: none"> · 14.6 Special precautions for user 	Warning: Flammable liquids.
<ul style="list-style-type: none"> · Danger code (Kemler): · EMS Number: 	30 F-E,S-D
<ul style="list-style-type: none"> · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> · Transport/Additional information: 	
<ul style="list-style-type: none"> · ADR · Transport category 	2

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· **Tunnel restriction code** D/E

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Carcinogenic Categories**

- **IARC (International Agency for Research on Cancer)**

64-17-5	ethanol	1
67-63-0	propan-2-ol	3
108-88-3	toluene	3

- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients are listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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.

- **Relevant phrases**

H201 Explosive; mass explosion hazard.
 H225 Highly flammable liquid and vapour.
 H226 Flammable liquid and vapour.
 H301 Toxic if swallowed.
 H304 May be fatal if swallowed and enters airways.
 H311 Toxic in contact with skin.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H331 Toxic if inhaled.
 H336 May cause drowsiness or dizziness.
 H340 May cause genetic defects.
 H350 May cause cancer.
 H361d Suspected of damaging the unborn child.
 H370 Causes damage to the central nervous system and optic nerve.
 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
 IMDG: International Maritime Code for Dangerous Goods

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Safety data sheet
according to 830/2015/EC

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DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Expl. 1.1: Explosives, Division 1.1
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 3: Acute toxicity, Hazard Category 3
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
Carc. 1B: Carcinogenicity, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1