1 Identification

· Product identifier
  · Trade name: Blue Marking Ink Kleenscribe Layout Dye
  · Product code: #1610

· Recommended use and restriction on use
  · Recommended use: Industrial uses.
  · Restrictions on use: Contact manufacturer

· 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

· Emergency telephone number:
  ChemTel Inc.
  +1 (800)255-3924, +1 (813)248-0585

2 Hazard(s) identification

· Classification of the substance or mixture
  · Flam. Liq. 2 H225 Highly flammable liquid and vapor.
  · 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. 2A H319 Causes serious eye irritation.
  · Muta. 1B H340 May cause genetic defects.
  · Carc. 1B H350 May cause cancer.
  · Repr. 2 H361 Suspected of damaging fertility or the unborn child.
  · STOT SE 1 H370 Causes damage to the central nervous system and optic nerve.
  · STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
  · 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.

· Label elements
  · GHS label elements
    The product is classified and labeled according to the Globally Harmonized System (GHS).
  · Hazard pictograms:
    GHS02 GHS06 GHS07 GHS08

· Signal word: Danger

(Cont'd. on page 2)
Hazard statements:
- H225 Highly flammable liquid and vapor.
- 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.
- H361 Suspected of damaging fertility or the unborn child.
- H370 Causes damage to the central nervous system and optic nerve.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.
- H304 May be fatal if swallowed and enters airways.

Precautionary statements:
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P260 Do not breathe mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P233 Keep container tightly closed.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P314 Get medical advice/attention if you feel unwell.
- P330 Rinse mouth.
- P331 Do NOT induce vomiting.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P361+P364 Take off immediately all contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system
- NFPA ratings (scale 0 - 4)
  - Health = 1
  - Fire = 3
  - Reactivity = 0
# 3 Composition/information on ingredients

**Chemical characterization:** Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>Percentage</th>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5 ethanol</td>
<td>25-40%</td>
<td>Flam. Liq. 2, H225</td>
<td>Flam. Liq. 2A, H319</td>
<td></td>
</tr>
<tr>
<td>123-86-4 n-butyl acetate</td>
<td>10-20%</td>
<td>Flam. Liq. 3, H226</td>
<td>STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>67-56-1 methanol</td>
<td>≤10%</td>
<td>Flam. Liq. 2, H225</td>
<td>Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331</td>
<td>STOT SE 1, H370; Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>141-78-6 ethyl acetate</td>
<td>≤10%</td>
<td>Flam. Liq. 2, H225</td>
<td>Eye Irrit. 2, H319; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>9004-70-0 Nitrocellulose, colloided, granular</td>
<td>≤10%</td>
<td>Expl. 1.1, H201</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67-63-0 propan-2-ol</td>
<td>2.5-5%</td>
<td>Flam. Liq. 2, H225</td>
<td>Eye Irrit. 2, H319; STOT SE 3, H336</td>
<td></td>
</tr>
<tr>
<td>108-88-3 toluene</td>
<td>3-5%</td>
<td>Flam. Liq. 2, H225</td>
<td>Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304</td>
<td>Skin Irrit. 2, H315; STOT SE 3, H336; Eye Irrit. 2B, H320</td>
</tr>
<tr>
<td>64742-89-8 Solvent naphtha (petroleum), light aliph.</td>
<td>2.5-5%</td>
<td>Mut. 1B, H340; Carc. 1B, H350; Asp. Tox. 1, H304</td>
<td></td>
<td></td>
</tr>
<tr>
<td>67-64-1 acetone</td>
<td>2.5-5%</td>
<td>Flam. Liq. 2, H225</td>
<td>Eye Irrit. 2A, H319; STOT SE 3, H336</td>
<td></td>
</tr>
</tbody>
</table>

**Additional information:**
For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.
First-aid measures

· 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 apparatus only after contaminated clothing have been completely removed.
  Take affected persons out into the fresh air.
  
  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 lying on their back should be turned onto their side.
  Do not induce vomiting; immediately call for medical help.
  
  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
  
  Danger:
  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.
  
  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.
### 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:** None.

- **Special hazards arising from the substance or mixture**
  - Can form explosive gas-air mixtures.
  - Formation of toxic gases is possible during heating or in case of fire.

- **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.

### 6 Accidental release measures

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

### 7 Handling and storage

- **Handling**
  - **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 protection against explosions and fires:**
    - Flammable gas-air mixtures may be formed in empty containers/receptacles.
Trade name: Blue Marking Ink Kleenscribe Layout Dye

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.

· 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 oxidizing agents.
      Store away from foodstuffs.
  · Further information about storage conditions:
    Store in cool, dry conditions in well sealed receptacles.
    Keep containers tightly sealed.
  · Specific end use(s): No relevant information available.

8 Exposure controls/personal protection

· Control parameters

<table>
<thead>
<tr>
<th>Components with limit values that require monitoring at the workplace:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>64-17-5 ethanol</strong></td>
</tr>
<tr>
<td>PEL (USA)</td>
</tr>
<tr>
<td>REL (USA)</td>
</tr>
<tr>
<td>TLV (USA)</td>
</tr>
<tr>
<td>EL (Canada)</td>
</tr>
<tr>
<td>EV (Canada)</td>
</tr>
<tr>
<td>LMPE (Mexico)</td>
</tr>
</tbody>
</table>

| **123-86-4 n-butyl acetate**                                  |
| PEL (USA) | Long-term value: 710 mg/m³, 150 ppm                       |
| REL (USA) | Short-term value: 950 mg/m³, 200 ppm                      |
| TLV (USA) | Short-term value: (950) NIC-712 mg/m³, (200) NIC-150 ppm |
| EL (Canada) | Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm     |
| EV (Canada) | Short-term value: 950 mg/m³, 200 ppm                    |
| LMPE (Mexico) | Short-term value: 200 ppm         |

| **67-56-1 methanol**                                       |
| PEL (USA) | Long-term value: 260 mg/m³, 200 ppm                       |
### Trade name: Blue Marking Ink Kleenscribe Layout Dye

<table>
<thead>
<tr>
<th></th>
<th>REL (USA)</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>42.0.18</strong></td>
<td>Short-term value: 325 mg/m³, 250 ppm&lt;br&gt;Long-term value: 260 mg/m³, 200 ppm&lt;br&gt;Skin</td>
<td>Short-term value: 328 mg/m³, 250 ppm&lt;br&gt;Long-term value: 262 mg/m³, 200 ppm&lt;br&gt;SKIN; BEI</td>
<td>Short-term value: 250 ppm&lt;br&gt;Long-term value: 200 ppm</td>
<td>Short-term value: 325 mg/m³, 250 ppm&lt;br&gt;Long-term value: 260 mg/m³, 200 ppm&lt;br&gt;Skin</td>
<td>Short-term value: 250 ppm&lt;br&gt;Long-term value: 200 ppm&lt;br&gt;PIEL, IBE</td>
</tr>
<tr>
<td><strong>141-78-6 ethyl acetate</strong></td>
<td>PEL (USA)</td>
<td>REL (USA)</td>
<td>TLV (USA)</td>
<td>EL (Canada)</td>
<td>EV (Canada)</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 1400 mg/m³, 400 ppm</td>
<td>Long-term value: 1400 mg/m³, 400 ppm</td>
<td>Long-term value: 1440 mg/m³, 400 ppm</td>
<td>Long-term value: 150 ppm</td>
<td>Long-term value: 1.440 mg/m³, 400 ppm</td>
</tr>
<tr>
<td><strong>67-63-0 propan-2-ol</strong></td>
<td>PEL (USA)</td>
<td>REL (USA)</td>
<td>TLV (USA)</td>
<td>EL (Canada)</td>
<td>EV (Canada)</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 980 mg/m³, 400 ppm</td>
<td>Short-term value: 1225 mg/m³, 500 ppm&lt;br&gt;Long-term value: 980 mg/m³, 400 ppm</td>
<td>Short-term value: 984 mg/m³, 400 ppm&lt;br&gt;Long-term value: 492 mg/m³, 200 ppm&lt;br&gt;BEI</td>
<td>Long-term value: 400 ppm&lt;br&gt;Long-term value: 200 ppm</td>
<td>Long-term value: 400 ppm&lt;br&gt;Long-term value: 200 ppm</td>
</tr>
<tr>
<td><strong>108-88-3 toluene</strong></td>
<td>PEL (USA)</td>
<td>REL (USA)</td>
<td>TLV (USA)</td>
<td>EL (Canada)</td>
<td>EV (Canada)</td>
</tr>
<tr>
<td></td>
<td>Long-term value: 200 ppm&lt;br&gt;Ceiling limit value: 300; 500* ppm&lt;br&gt;*10-min peak per 8-hr shift</td>
<td>Short-term value: 560 mg/m³, 150 ppm&lt;br&gt;Long-term value: 375 mg/m³, 100 ppm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Cont'd. on page 8)
## Trade name: Blue Marking Ink Kleenscribe Layout Dye

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>TLV (USA)</th>
<th>EL (Canada)</th>
<th>EV (Canada)</th>
<th>LMPE (Mexico)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>67-64-1 acetone</strong></td>
<td>Long-term value: 75 mg/m³, 20 ppm BEI</td>
<td>Long-term value: 20 ppm R</td>
<td>Long-term value: 20 ppm</td>
<td>Long-term value: 20 ppm A4, IBE</td>
</tr>
<tr>
<td><strong>67-63-0 propan-2-ol</strong></td>
<td>Long-term value: 2400 mg/m³, 1000 ppm</td>
<td>Long-term value: 590 mg/m³, 250 ppm</td>
<td>Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI</td>
<td>Short-term value: 500 ppm Long-term value: 250 ppm</td>
</tr>
<tr>
<td><strong>108-88-3 toluene</strong></td>
<td>Long-term value: 594 mg/m³, 250 ppm</td>
<td>Short-term value: 750 ppm Long-term value: 500 ppm</td>
<td>Short-term value: 750 ppm Long-term value: 500 ppm</td>
<td>A4, IBE</td>
</tr>
</tbody>
</table>

### Ingredients with biological limit values:

**67-56-1 methanol**

| BEI (USA) | 15 mg/L |
| Medium: urine | Time: end of shift |
| Parameter: Methanol (background, nonspecific) |

**67-63-0 propan-2-ol**

| BEI (USA) | 40 mg/L |
| Medium: urine | Time: end of shift at end of workweek |
| Parameter: Acetone (background, nonspecific) |
Trade name: Blue Marking Ink Kleenscribe Layout Dye

<table>
<thead>
<tr>
<th>Substance</th>
<th>BEI (USA)</th>
<th>Medium</th>
<th>Parameter</th>
<th>Concentration</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>0.02 mg/L</td>
<td>blood</td>
<td>Toluene</td>
<td>0.03 mg/L</td>
<td>end of shift</td>
</tr>
<tr>
<td>Acetone</td>
<td>50 mg/L</td>
<td>urine</td>
<td>Acetone (nonspecific)</td>
<td>0.3 mg/g creatinine</td>
<td>end of shift</td>
</tr>
</tbody>
</table>

**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.
- **Engineering controls:** Provide adequate ventilation.
- **Breathing equipment:**
  - Suitable respiratory protective device recommended.
  - Use suitable respiratory protective device when aerosol or mist is formed.
  - Use suitable respirator protective device when high concentrations are present.
  - NIOSH or EN approved organic vapor 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 cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material
The exact breakthrough 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.

9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance:
Form: Liquid
Color: Blue
Odor: Characteristic
Odor threshold: Not determined.

pH-value: Not determined.
Melting point/Melting range: Not determined.
Boiling point/Boiling range: 56 °C (133 °F)

Flash point: -20 °C (-4 °F)

Flammability (solid, gaseous): Not applicable.
Auto-ignition temperature: 370 °C (698 °F)
Decomposition temperature: Not determined.

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

Explosion limits
Lower: 1.2 Vol %
Upper: 44.0 Vol %

Vapor pressure at 20 °C (68 °F): 128 hPa (96 mm Hg)

Density at 20 °C (68 °F): 0.89 g/cm³ (7.427 lbs/gal)
Relative density: Not determined.
Vapor density: Not determined.
10 Stability and reactivity

- **Reactivity**: No relevant information available.
- **Chemical stability**:
- **Thermal decomposition / conditions to be avoided**:
  - No decomposition if used according to specifications.
- **Possibility of hazardous reactions**:
  - Can react violently with oxygen rich (oxidizing) material. Danger of Explosion.
  - Highly flammable liquid and vapor.
  - Reacts with strong acids.
  - Reacts with certain metals.
  - Forms flammable gases / fumes.
  - Toxic fumes may be released if heated above the decomposition point.
- **Conditions to avoid**: No relevant information available.
- **Incompatible materials**: No relevant information available.
- **Hazardous decomposition products**:
  - Carbon monoxide and carbon dioxide
  - Nitrogen oxides
  - Small quantities of formaldehyde may be formed.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**:

| LD/LC50 values that are 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) |
Trade name: Blue Marking Ink Kleenscribe Layout Dye

- **Primary irritant effect:**
  - **On the skin:** Based on available data, the classification criteria are not met.
  - **On the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.

- **IARC (International Agency for Research on Cancer):**
  - 67-63-0 propan-2-ol
  - 108-88-3 toluene

- **NTP (National Toxicology Program):**
  None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**
  None of the ingredients are listed.

- **Probable route(s) 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.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - Muta. 1B, Carc. 1B, Repr. 2

- **Germ cell mutagenicity:** May cause genetic defects.

- **Carcinogenicity:** May cause cancer.

- **Reproductive toxicity:** Suspected of damaging fertility or the unborn child.

- **STOT-single exposure:** Causes damage to the central nervous system and optic nerve.

- **STOT-repeated exposure:**
  - May cause damage to organs through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Aspiration hazard:** May be fatal if swallowed and enters airways.

---

**12 Ecological information**

- **Toxicity**
  - **Aquatic toxicity** No relevant information available.

- **Persistence and degradability** Moderately /partly biodegradable

- **Bioaccumulative potential:** Non significant accumulation in organisms

- **Mobility in soil:** No 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.

- **Results of PBT and vPvB assessment**
  - PBT: Not applicable.
  - vPvB: Not applicable.
13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation:**
    - Hand over to hazardous waste disposers.
    - Must be specially treated adhering to official regulations.
    - Must not be disposed of 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 packagings**
  - **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- **UN-Number**
  - DOT, ADR, IMDG, IATA: UN1210

- **UN proper shipping name**
  - DOT, IMDG, IATA: PRINTING INK
  - ADR: 1210 PRINTING INK

- **Transport hazard class(es)**
  - **DOT**
    - **Class:** 3 Flammable liquids
    - **Label:** 3

  - **ADR**
    - **Class:** 3 (F1) Flammable liquids

(Cont'd. on page 14)
15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **United States (USA)**
  - **SARA**
    - **Section 355 (extremely hazardous substances):**
      None of the ingredients are listed.
    - **Section 313 (Specific toxic chemical listings):**
      - 67-56-1 methanol
      - 67-63-0 propan-2-ol
      - 108-88-3 toluene
    - **TSCA (Toxic Substances Control Act)**
      All ingredients are listed.
    - **Proposition 65 (California)**
      - **Chemicals known to cause cancer:**
        Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.
      - **Chemicals known to cause reproductive toxicity for females:**
        108-88-3 toluene
      - **Chemicals known to cause reproductive toxicity for males:**
        None of the ingredients are listed.


---

**Trade name:** Blue Marking Ink Kleenscribe Layout Dye

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- **Chemicals known to cause developmental toxicity:**

  Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.

  - 64-17-5 ethanol
  - 67-56-1 methanol
  - 108-88-3 toluene

- **Carcinogenic categories**

  - **EPA (Environmental Protection Agency):**
    - 108-88-3 toluene II
    - 67-64-1 acetone I

  - **IARC (International Agency for Research on Cancer):**
    - 64-17-5 ethanol 1
    - 67-63-0 propan-2-ol 3
    - 108-88-3 toluene 3

  - **NIOSH-Ca (National Institute for Occupational Safety and Health):**
    - None of the ingredients are listed.

  - **Canadian Domestic Substances List (DSL):**
    - All ingredients are listed.

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

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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.

- **Date of preparation / last revision** 04/20/2016 / -

- **Abbreviations and acronyms:**

  - ADR: 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
  - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  - 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
  - Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
  - Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
  - Mut. 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

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(Cont'd. on page 16)
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

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