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

- 1.1 Product identifier
  
  Trade name: Quik-Fume (Finger Print Developer Cartridge)
  
  - Article number: 1-4506 (1164264)

- 1.2 Relevant identified uses of the substance or mixture and uses advised against
  
  No further relevant information available.

- Application of the substance / the mixture
  
  Laboratory chemicals

- 1.3 Details of the supplier of the Safety Data Sheet
  
  Manufacturer/Supplier:
  
  Safariland, LLC
  
  13386 International Parkway
  
  Jacksonville, FL 32218
  
  Customer Care (800) 347-1200

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

2 Hazards identification

- 2.1 Classification of the substance or mixture
  
  - Classification according to Regulation (EC) No 1272/2008

  GHS07

  Skin Irrit. 2  H315  Causes skin irritation.
  Eye Irrit. 2  H319  Causes serious eye irritation.
  STOT SE 3  H335  May cause respiratory irritation.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC
  
  Xi; Irritant
  
  R36/37/38:  Irritating to eyes, respiratory system and skin.

- Information concerning particular hazards for human and environment:
  
  The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- Classification system:
  
  The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
  The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

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

(Contd. on page 2)
Trade name: Quik-Fume (Finger Print Developer Cartridge)

- Hazard pictograms


- Signal word Warning

- Hazard-determining components of labelling:
  ethyl 2-cyanoacrylate

- Hazard statements
  H315 Causes skin irritation.
  H319 Causes serious eye irritation.
  H335 May cause respiratory irritation.

- Precautionary statements
  P280 Wear protective gloves / eye protection.
  P261 Avoid breathing mist/vapours/spray.
  P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P332+P313 If skin irritation occurs: Get medical advice/attention.
  P302+P352 IF ON SKIN: Wash with plenty of soap and water.
  P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:
  Contains 1,4-dihydroxybenzene. May produce an allergic reaction.

- Hazard description:

- WHMIS-symbols:
  D2B - Toxic material causing other toxic effects

- NFPA ratings (scale 0 - 4)
  Health = 1
  Fire = 1
  Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  Health = 1
  Fire = 1
  Reactivity = 0

- HMIS Long Term Health Hazard Substances
  None of the ingredients is listed.

- 2.3 Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
3 Composition/information on ingredients

3.2 Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS: 7085-85-0</th>
<th>ethyl 2-cyanoacrylate</th>
<th>Xi R36/37/38</th>
<th>&gt;90%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 230-391-5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index number: 607-236-00-9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS: 123-31-9</td>
<td>1,4-dihydroxybenzene</td>
<td>Xi R22-40-68; Xi R41; Xi R43; N R50</td>
<td>&lt; 1,0%</td>
</tr>
<tr>
<td>EINECS: 204-617-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Index number: 604-005-00-4</td>
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</tr>
<tr>
<td></td>
<td>Muta. 2, H341; Carc. 2, H351</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Dam. 1, H318</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Acute 1, H400</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute Tox. 4, H302; Skin Sens. 1, H317</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carc. Cat. 3, Muta. Cat. 3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures
- General information: Take affected persons out into the fresh air.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
  - Immediately wash with water and soap and rinse thoroughly.
  - If skin irritation continues, consult a doctor.
  - Do not pull solidified product off the skin.
- After eye contact:
  - Remove contact lenses if worn, if possible.
  - Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
  - Rinse out mouth and then drink plenty of water.
  - Do not induce vomiting; call for medical help immediately.
- 4.2 Most important symptoms and effects, both acute and delayed
  - Irritant to skin and mucous membranes.
  - Irritant to eyes.
  - Dizziness
  - Headache
  - Coughing
  - Breathing difficulty
  - Gastric or intestinal disorders.
- Hazards No further relevant information available.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and
GHS

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4.3 Indication of any immediate medical attention and special treatment needed
Treat skin and mucous membrane with antihistamine and corticoid preparations.

5 Firefighting measures

5.1 Extinguishing media
5.2 Special hazards arising from the substance or mixture
5.3 Advice for firefighters
5.4 Protective equipment:
Wear self-contained respiratory protective device.
Wear fully protective suit.

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: No special measures required.
6.3 Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
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.

7 Handling and storage

7.1 Precautions for safe handling
Use only in well ventilated areas.
Keep receptacles tightly sealed.
Information about fire - and explosion protection: No special measures required.
7.2 Conditions for safe storage, including any incompatibilities
7.3 Storage:
Requirements to be met by storerooms and receptacles:
Avoid storage near extreme heat, ignition sources or open flame.
Protect from humidity and water.


8 Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.

- 8.1 Control parameters

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

  - 7085-85-0 ethyl 2-cyanoacrylate

    | TLV (USA) | Long-term value: 1 mg/m³, 0.2 ppm |
    | EL (Canada) | Long-term value: 0.2 ppm |
    | EV (Canada) | Long-term value: 0.2 ppm |

- DNELs No further relevant information available.
- PNECs No further relevant information available.
- Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:

  - General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
    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.
    Avoid contact with the eyes and skin.

  - Respiratory protection:
    Not required under normal conditions of use.
    Use suitable respiratory protective device when high concentrations are present.
    For spills, respiratory protection may be advisable.
    NIOSH 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.
    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
Trade name: Quik-Fume (Finger Print Developer Cartridge)

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:** Protective work clothing
- **Limitation and supervision of exposure into the environment**
  No further relevant information available.

**Risk management measures**
See Section 7 for additional information.
No further relevant information available.

---

### 9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  - Form: Liquid
  - Colour: Transparent
  - Odour: Irritant
  - Odour threshold: Not determined.
- **pH-value:** Not determined.
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: >300 °F / >149 °C
- **Flash point:** >200 °F / >93 °C
- **Flammability (solid, gaseous):** Not applicable.
- **Ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower: Not determined.
  - Upper: Not determined.
- **Vapour pressure:** Not determined.
- **Density at 24 °C:** 1.05 g/cm³
Trade name: Quik-Fume (Finger Print Developer Cartridge)

- Relative density: Not determined.
- Vapour density: 3.0 (Air = 1.0)
- Evaporation rate: Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not determined.
  - Kinematic: Not determined.
- Solvent content:
  - VOC (US EPA Method 24): 94 % vol (987 g/L)
- Solids content: 0.5 %
- 9.2 Other information: No further relevant information available.

10 Stability and reactivity

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions
  Reacts with strong acids and oxidizing agents.
  Reacts with catalysts.
  Polymerisation.
- 10.4 Conditions to avoid
  Store away from oxidizing agents.
  Keep away from heat and direct sunlight.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
  - LD/LC50 values relevant for classification:
    - 123-31-9 1,4-dihydroxybenzene
      - Oral LD50 320 mg/kg (rat)
- Primary irritant effect:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: Irritating effect.
  - Sensitization: Sensitizing effect by skin contact is possible by prolonged exposure.
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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(Contd. of page 7)

- **Additional toxicological information:**
  The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
  - **Irritant**
    Inhalation of concentrated vapours as well as oral intake will lead to anaesthesia-like conditions and headache, dizziness, etc.
  - **Toxic and/or corrosive effects** may be delayed up to 24 hours.
  - **Acute effects (acute toxicity, irritation and corrosivity):** Vapours have narcotic effect.
  - **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

12 Ecological information

  - **12.1 Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **12.2 Persistence and degradability** No further relevant information available.
  - **12.3 Bioaccumulative potential** No further relevant information available.
  - **12.4 Mobility in soil** No further relevant information available.
  - **Ecotoxicological effects:**
    - **Remark:** Due to mechanical actions of the product (e.g. agglutinations) damages may occur. The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.
  - **Additional ecological information:**
    - **General notes:**
      This statement was deduced from the properties of the single components. Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
      Water hazard class 2 (German Regulation) (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.
  - **12.5 Results of PBT and vPvB assessment**
    - **PBT:** Not applicable.
    - **vPvB:** Not applicable.
  - **12.6 Other adverse effects** No further relevant information available.

13 Disposal considerations

  - **13.1 Waste treatment methods**
  - **Recommendation**
    Must not be disposed together with household garbage. Do not allow product to reach sewage system.
    Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
    Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.
  - **Uncleaned packaging:**
    - **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 9)
### 14 Transport information

<table>
<thead>
<tr>
<th>14.1 UN-Number</th>
<th>DOT, ADR, ADN, IMDG, IATA</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2 UN proper shipping name</td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>N/A</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>DOT, ADR, ADN, IMDG, IATA</td>
<td>Class</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>DOT, ADR, IMDG, IATA</td>
<td>N/A</td>
</tr>
<tr>
<td>14.5 Environmental hazards:</td>
<td>Marine pollutant:</td>
<td>No</td>
</tr>
<tr>
<td>14.6 Special precautions for user</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td></td>
<td>Not applicable.</td>
</tr>
<tr>
<td>UN &quot;Model Regulation&quot;:</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

### 15 Regulatory information

| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture |
| United States (USA) |
| SARA |
| Section 355 (extremely hazardous substances): | 123-31-9 1,4-dihydroxybenzene |
| Section 313 (Specific toxic chemical listings): | None of the ingredients is listed. |
| TSCA (Toxic Substances Control Act): | All ingredients are listed. |
| Proposition 65 (California): | 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. |
### Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

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**Revision:** November 14, 2013

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| **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. |
| **Carcinogenic Categories** | |
| **EPA (Environmental Protection Agency)** | None of the ingredients is listed. |
| **IARC (International Agency for Research on Cancer)** | None of the ingredients is listed. |
| **TLV (Threshold Limit Value established by ACGIH)** | 123-31-9 1,4-dihydroxybenzene |
| **NIOSH-Ca (National Institute for Occupational Safety and Health)** | None of the ingredients is listed. |
| **OSHA-Ca (Occupational Safety & Health Administration)** | None of the ingredients is listed. |
| **Canada** | |
| **Canadian Domestic Substances List (DSL)** | All ingredients are listed. |
| **Canadian Ingredient Disclosure list (limit 0.1%)** | None of the ingredients is listed. |
| **Canadian Ingredient Disclosure list (limit 1%)** | None of the ingredients is listed. |
| **15.2 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.

**Relevant phrases**

- **H302** Harmful if swallowed.
- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.
- **H318** Causes serious eye damage.
- **H319** Causes serious eye irritation.
- **H335** May cause respiratory irritation.
- **H341** Suspected of causing genetic defects.
- **H351** Suspected of causing cancer.
- **H400** Very toxic to aquatic life.
- **R22** Harmful if swallowed.
- **R36/37/38** Irritating to eyes, respiratory system and skin.
- **R40** Limited evidence of a carcinogenic effect.

(Contd. on page 11)
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
R68 Possible risk of irreversible effects.

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
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
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)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

Sources
SDS Prepared by:
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